

Key to Hart Crowser Exploration Logs

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, maisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented nerein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:

Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in barings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits is estimated based on visual abservation and is presented parenthetically on the test pit logs.

SAND or GRAVEL Density	Standard Penetration Resistance (N) in Blows/Foot	SILT or CLAY Consistency	Standard Penetration Resistance (N) in Blows/Foot	Approximale Shear Strength in TSF
Very loose	0 - 4	Very soft	0 - 2	<0.125
Loose	4 - 10	Soft	2 - 4	0.125 - 0.25
Medium denso	10 - 30	Medium stiff	4 - 8	0.25 - 0.5
Dense	30 - 50	Stiff	8 - 15	0.5 - 1.0
Very dense	>50	Very stiff	15 - 30	1.0 - 2.0
		Hard	>30	>2.0

Moisture

Little perceptible moisture

Domp. Some perceptible moisture, probably below optimum

Probably near optimum moisture content Moist

Wet Much perceptible moisture, probably above optimum

Minor Constituents	Estimated Percentage
Not identified in description	0 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sondy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Legends

Sampling Test Symbols

BORING SAMPLES

 \boxtimes Split Spoon

Shelby Tube

Core Run

 \mathbb{I} Cuttings

 \prod

1026-04/A-1 STANDARD.GWG

No Sample Recovery

Tube Pushed, Not Driven

TEST PIT SAMPLES

Grab (Jar)

 \square Bag

Shelby Tube

Groundwater Observations Surface Seal Bentonite Groundwater Level on Date or at Time of Drilling (ATD) Well Screen Sand Pack Native Material Groundwater Seepage (Test Pits)

Test Symbols

GS Grain Size Classification

CN Consolidation

UU Unconsolidated Undrained Triaxial

Consolidated Undrained Triaxial CU

CD Consolidated Drained Triaxial

QU Unconfined Compression

DS Direct Shear

κ Permeability

Pocket Penetrometer Approximate Compressive Strength in TSF PP

T۷ Approximate Shear Strength in TSF

CBR California Bearing Ratio

ΜĎ Maisture Density Relationship

Atterberg Limits

ΑĻ

Water Content in Percent

L Liquid Limit Natural Prostic Limit

PID Photoionization Detector Reading

Chemical Analysis CA

ĎΤ In Situ Density Test

> HARTCROWSER J-7026-04 6/01 Figure A-1

Project: Baxter Arlington Arlington, Washington		Log of Boring No. B-1								
Date Started: 8/24/90		Total Depth: 50 ft. Casing Elev: NA			tt. Depth	to GW: N	VA It.			
Date Completed: 8/24/90		Perforation: N/A				From:	To:	ft		
	Logged By: D. Walker		Pack: N/A				From:	To:	ft	
Drittin	Drilling Co: Soil Sampling Service Driller: Ketvirtls			Seal: N/A				From:	To:	ft
Origin	Drilling Method : 6" ID Hollow Stem Auger		Bentonite Slurry			XX	From: su	rf. To:	50.0 ft	
Drillin	g Equipmen	t: Mo	bile Drill B-61	Casing: N/A Sampler: 3" OD	Split-Sp	oon				
Depth (feat)	Sample	Sample 를 팅 LITHOLOGIC DESCRIPTION 를 형 Mon. Well installation					REMARKS			
5 -	X	2 4 4	loose, moist, brown silty grave abundant wood chips	el (GM),				OVA = 10	ррт	
10 -		3 3	100% wood chips at 9.0 ft.					OVA = 1 p	opm	
15		6 16 19 18	dense, moist, gray sandy gra	vei (GP)				OVA = 28	ppm	
20 -		5 10 13	medium dense				**	OVA = 7	ppm	
25		4 8 13	medium dense, moist, gray fil (SP/SM)	ne sand	SP-SM		***	OVA = 0	ррт	,
	- X	4 8 9	finer-grained, wet				X	OVA = 0	ppm	
F	Project 90C0456A Woodward-Clyde Consultants							page 1 o	f 2	

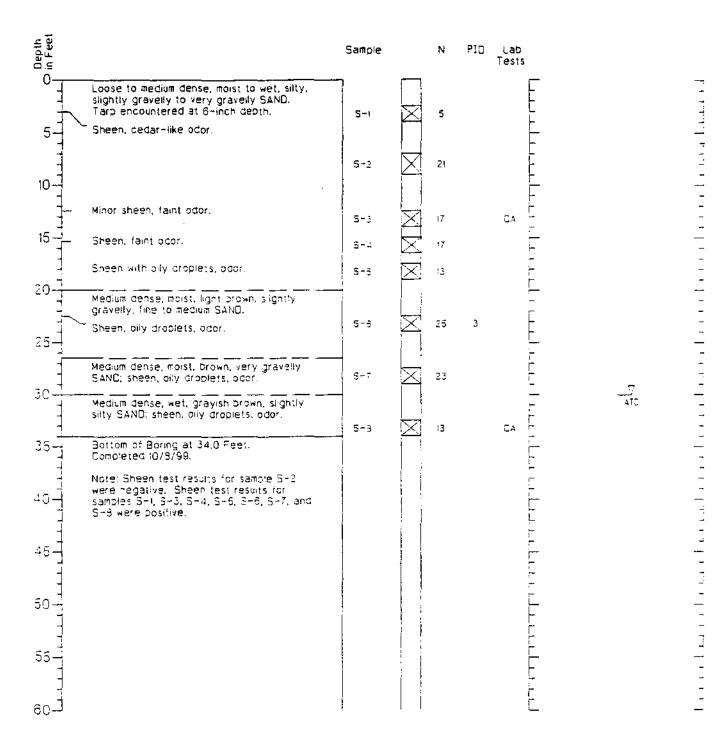
H

Proje	Project: Baxter Arlington Arlington, Washington		Log of Boring No. B-1				
Depth (feet)	Sam	ple	blow	LITHOLOGIC DESCRIPTION	Lith- ology	Mon. Well Installation	REMARKS
35 -		X	8 9 12	trace of gravel, saturated	SP-SM SP-SM		OVA = 0 ppm
40	-	X	7 8 10				OVA = 4 ppm
45		X	7 12 14	fine to medium; seam of silty sand at 44 ft.	MS-dS		OVA = 3 ppm
50 -		X	16 18 18				OVA = 2 ppm
55				Bottom of boring at 50 feet.			
Pro	Project 90C0456A Woodward-Clyde Consultants page 2 of 2					page 2 of 2	

. ,

Boring Log BT-S

Geologic Lag



Refer to Figure A-1 for explanation of descriptions; and symbols.

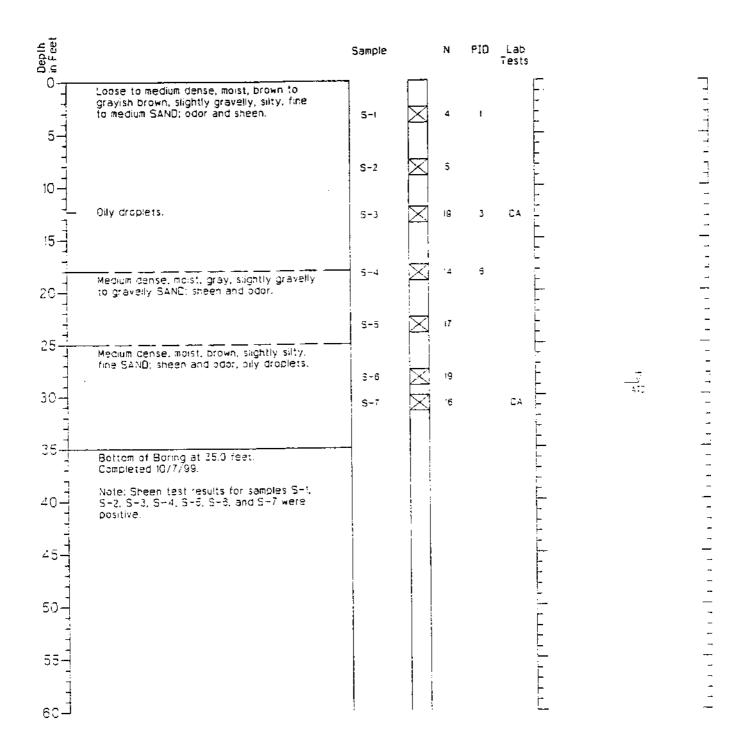


Boil descriptions and stratum lines are interpretive and actual changes may be gradual.

Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log BT-W

Geologic Log



^{1.} Refer to Figure A-1 for explanation of descriptions and symbols,



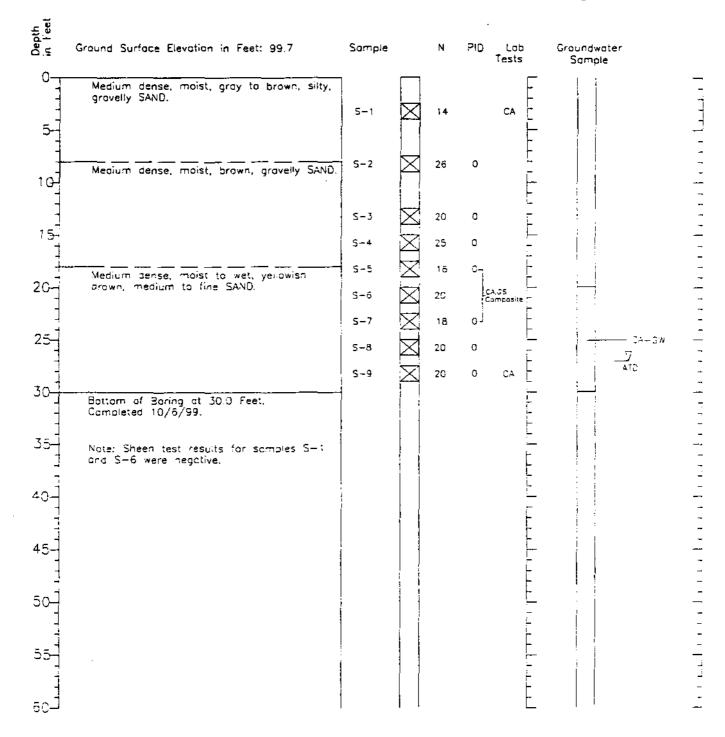
^{2.} Soil descriptions and stratum lines are interpretive

and actual changes may be gradual.

3. Ground water level, if indicated, is at time of drilling (ATC) or for date specified. Level may vary with time.

Geologic Log

Monitoring Well Design

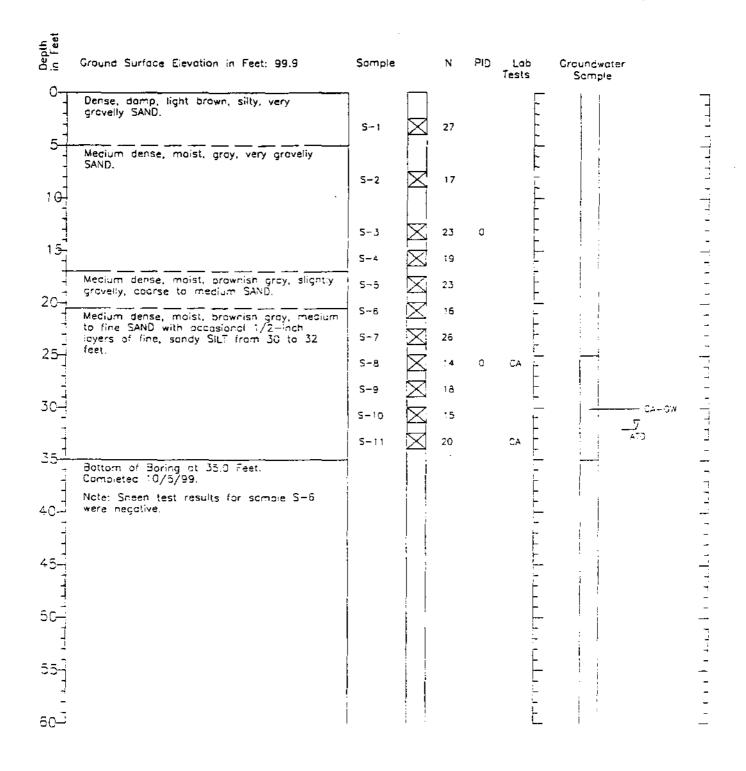


Refer to Figure A+1 for explanation of descriptions and symbols.

Sail descriptions and stratum lines are interpretive and actual changes may be gradual.

Ground water level, if indicated, is at time of drifting (ATD) or for date specified. Level may vary with time.

Geologic Log



Refer to Figure A=1 for explanation of descriptions and symbols.

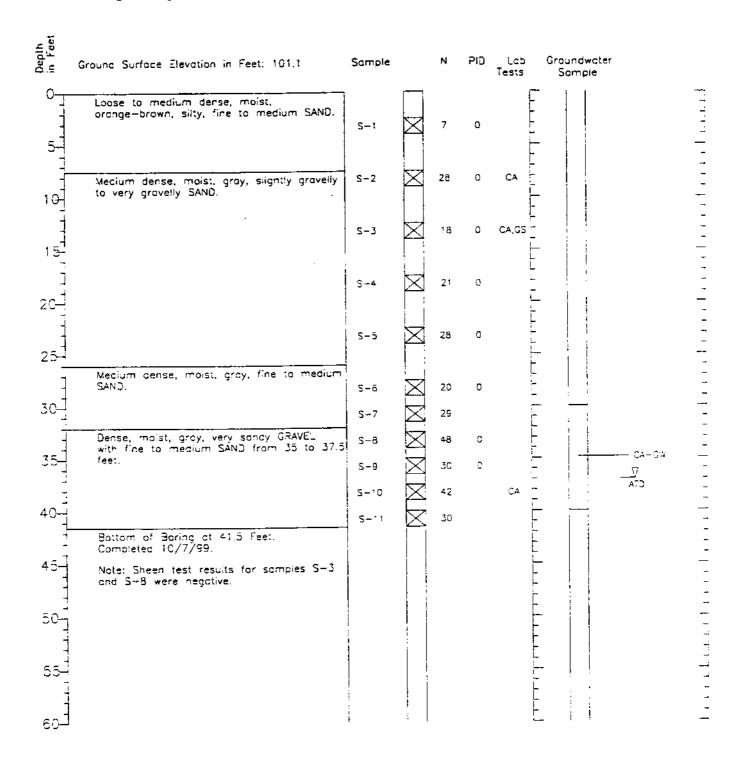
^{2.} Soil descriptions and stratum lines are interpretive

and actual changes may be gradual.

3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Geologic Log

Backfilled Boring



 Refer to Figure A+1 for explonation of descriptions and symbols.

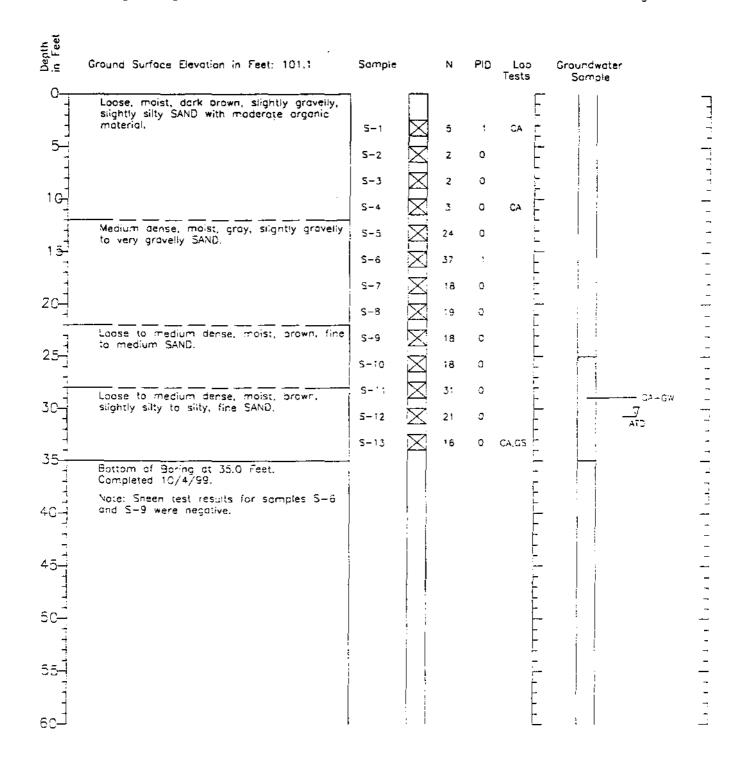
2. Soil descriptions and stretum lines are interpretive and actual changes may be arodual.

and actual changes may be gradual.

3. Graund water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER
J-7026-02 2/00
Figure A-4

Geologic Log



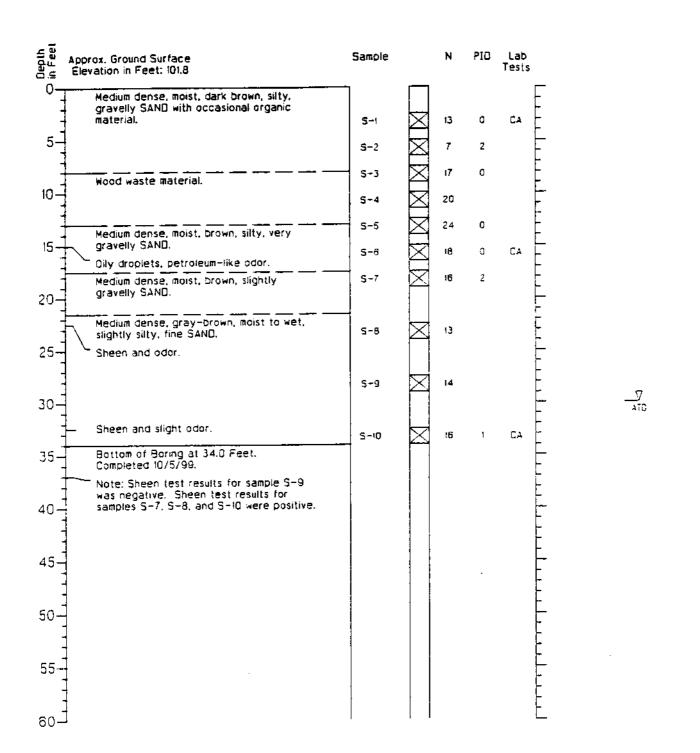
^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive

and actual ananges may be gradual.

3. Ground water level, if indicated, is at time of drilling (ATD) or for acte specified. Level may vary with time.

Geologic Log



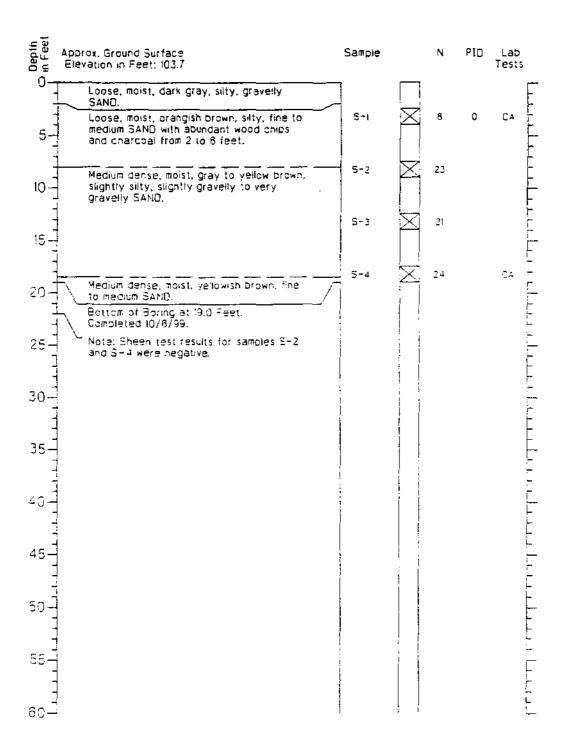
Refer to Figure A-1 for explanation of descriptions and symbols.



Soit descriptions and stratum lines are interpretive and actual changes may be gradual.

Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Geologic Log



^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

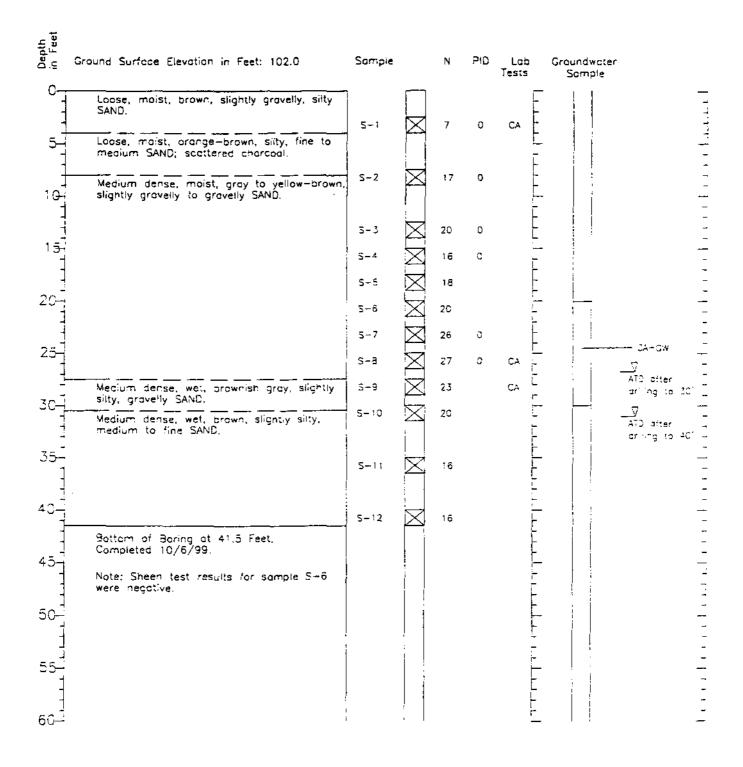


Soil descriptions and stratum lines are interpretive

and actual changes may be gradual.

3. Ground water level, if indicated, is at time of drilling (ATC) or for date specified. Level may vary with time.

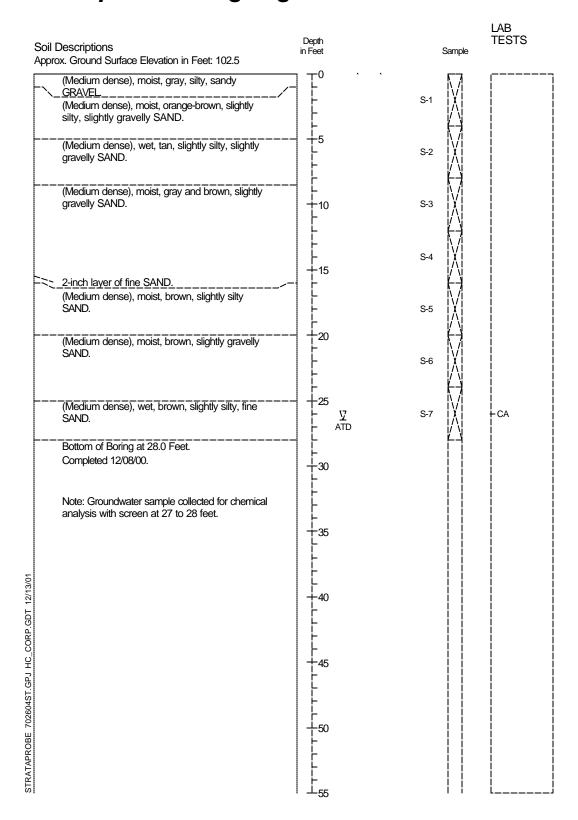
Geologic Log



Refer to Figure A=1 for explanation of descriptions and symbols.

Soil descriptions and stratum lines are interpretive and actual changes may be gracual.

Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may very with time.



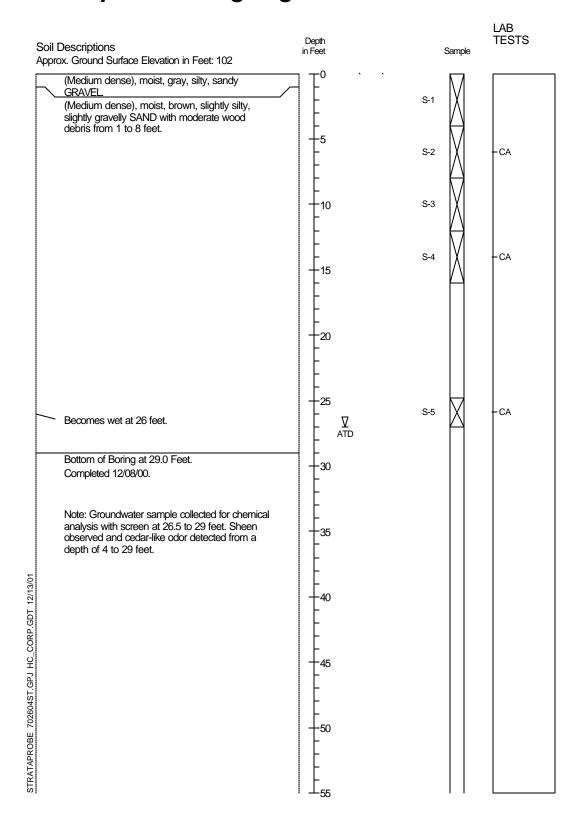


J-7026-04 Figure A-2

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





J-7026-04 Figure A-3

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with

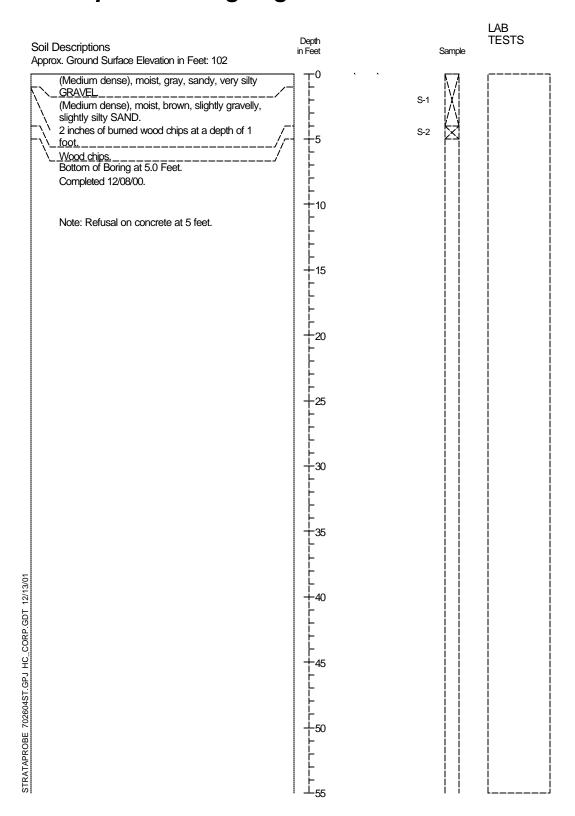


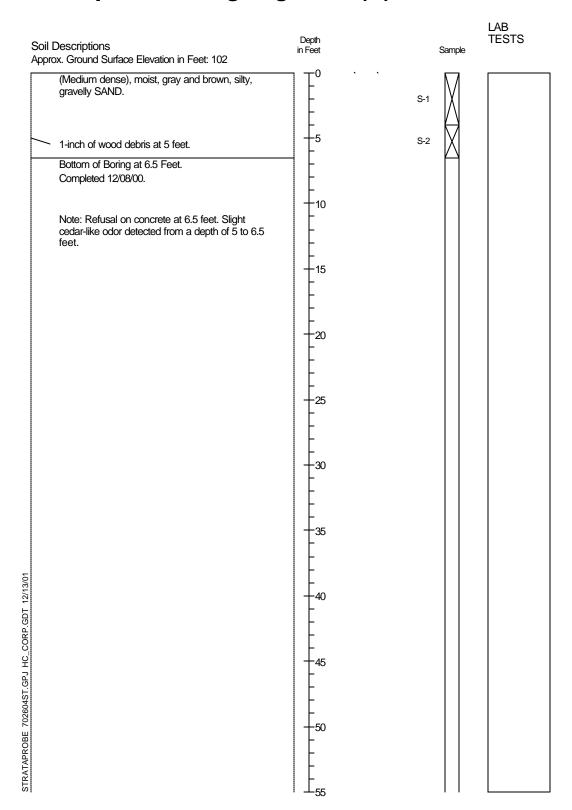


Figure A-4

12/00

J-7026-04

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

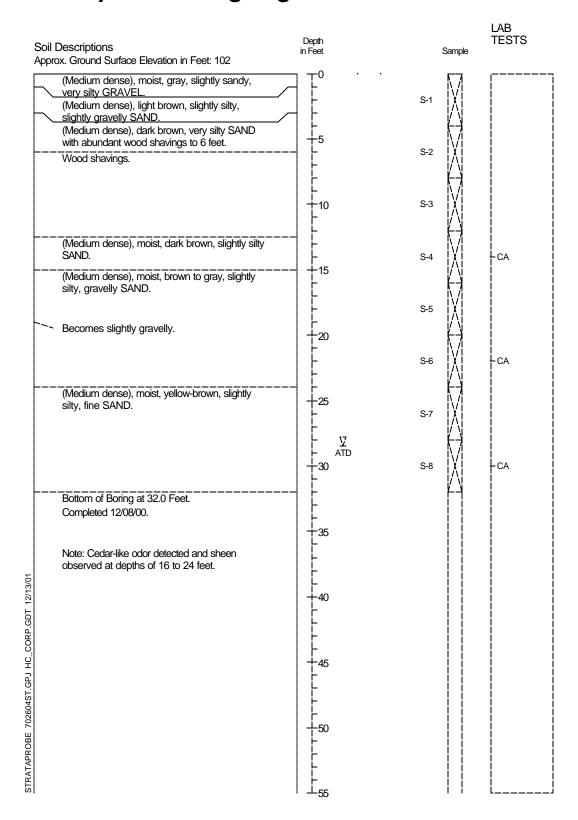




12/00

J-7026-04 Figure A-5

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



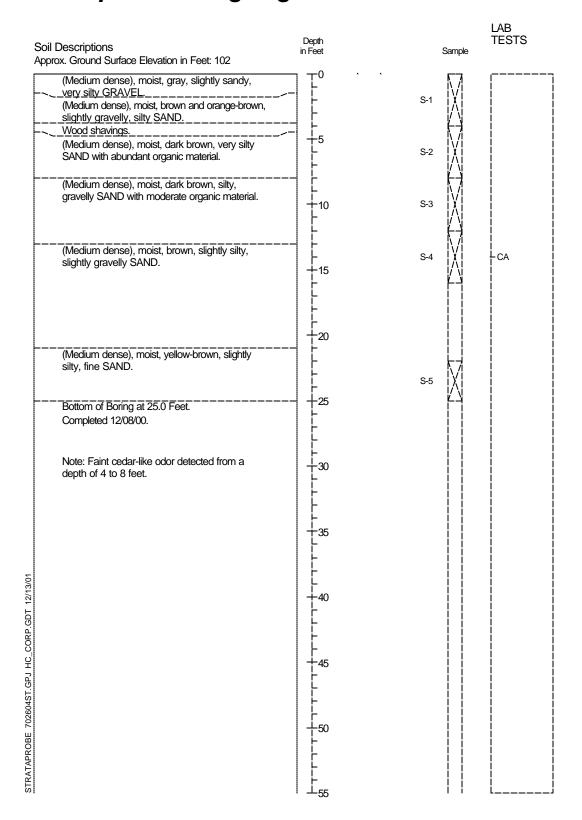


J-7026-04 Figure A-6

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

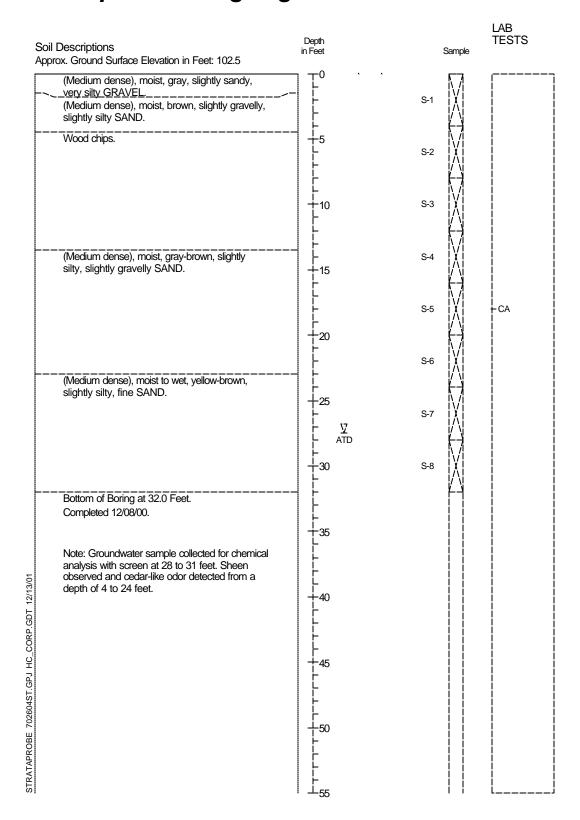




Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

J-7026-04 Figure A-7

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



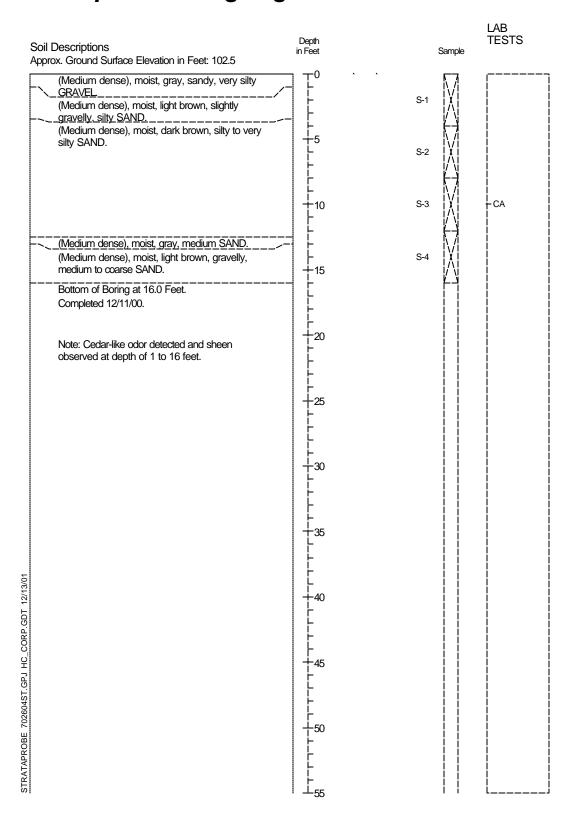


J-7026-04 Figure A-8

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

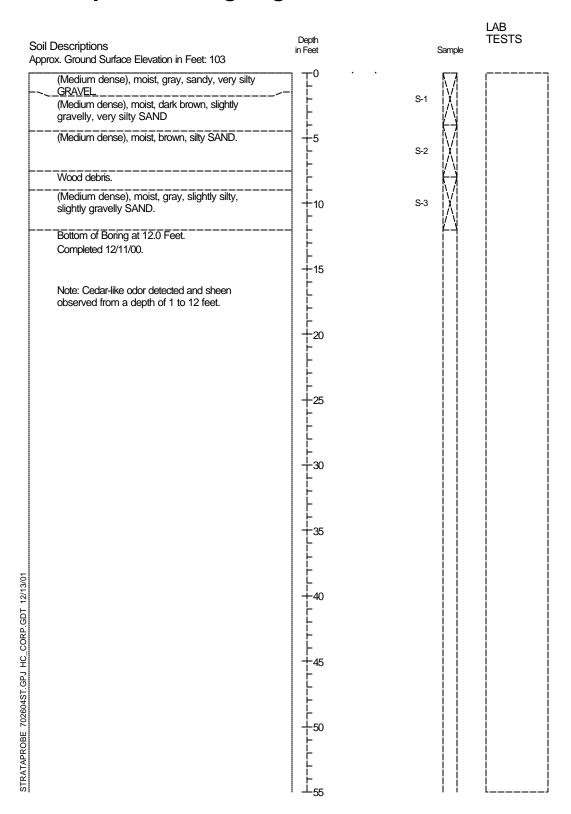
Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





J-7026-04 Figure A-9

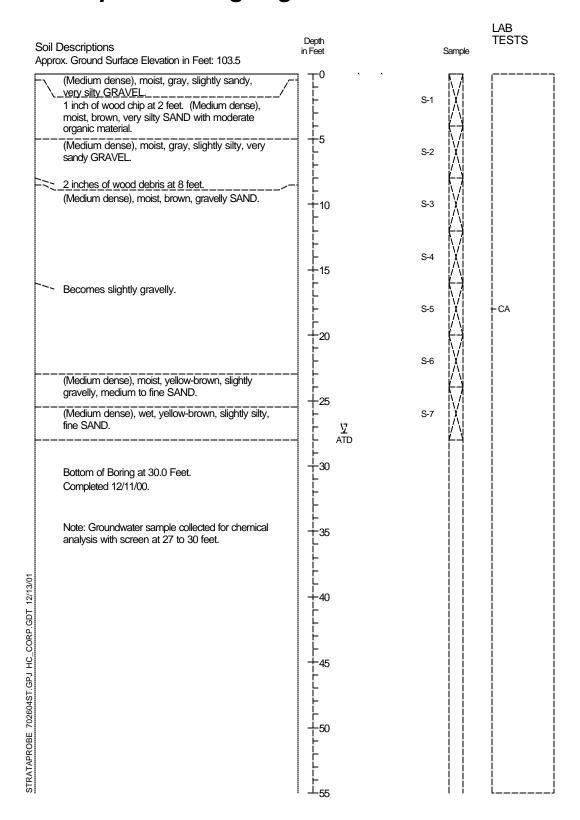
Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





J-7026-04 Figure A-10

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

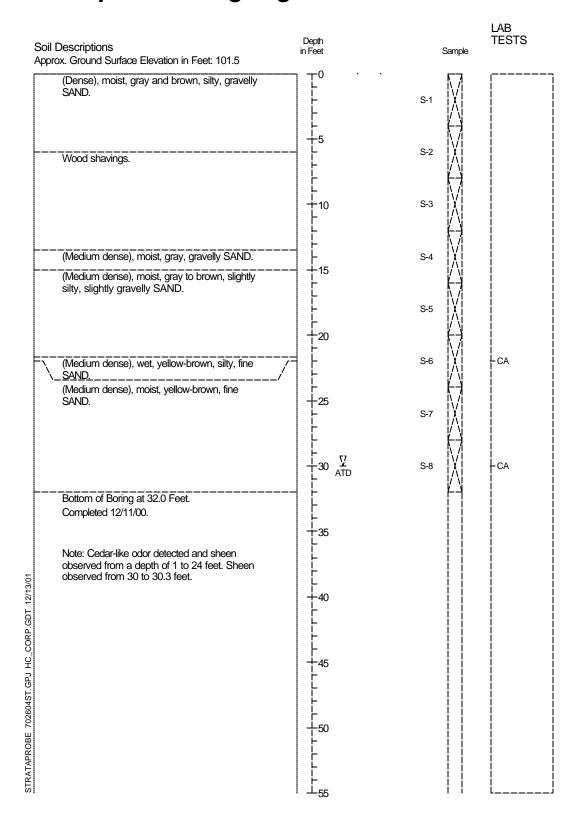




Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretine and actual dos

2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



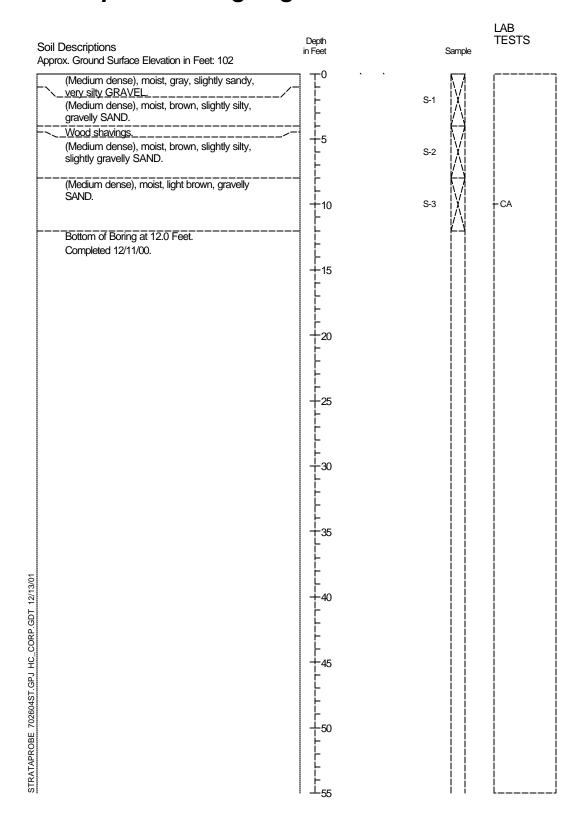


J-7026-04 Figure A-12

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stretum lines are intermediate and actual changes.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



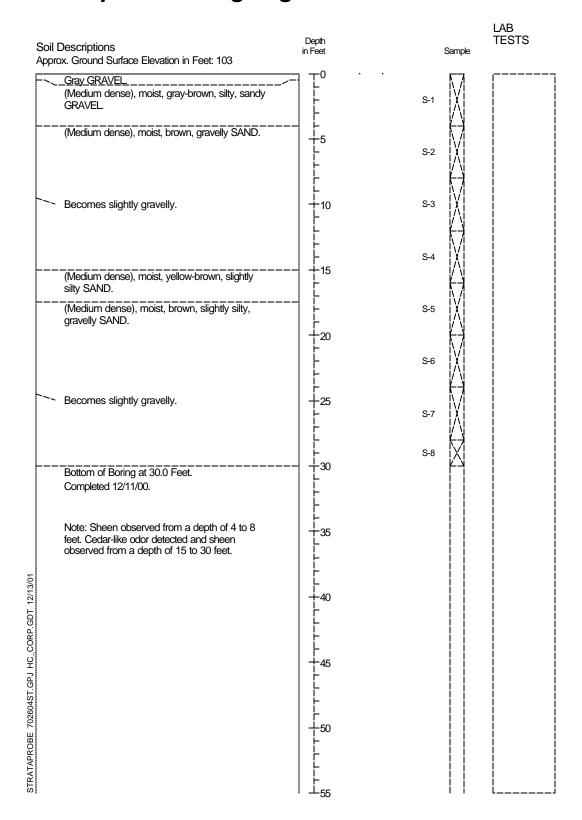


J-7026-04

12/00

Figure A-13

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



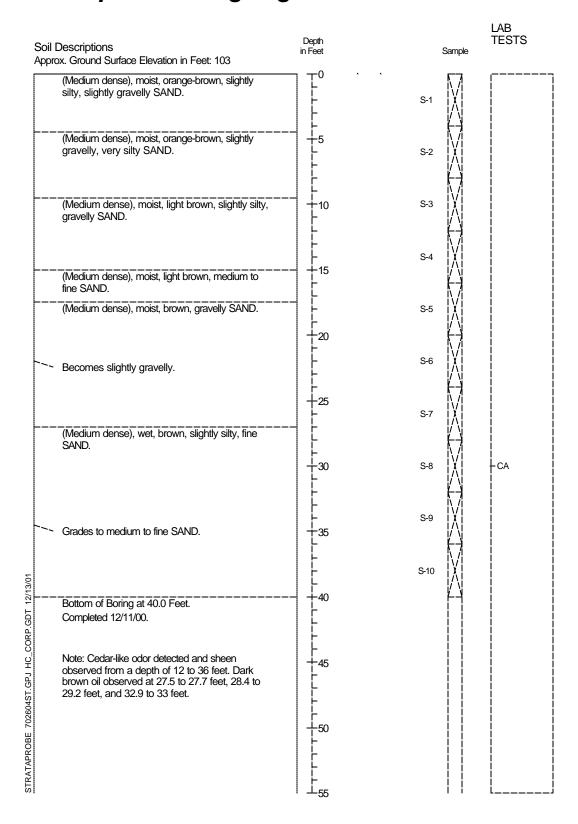


J-7026-04 Figure A-14

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwalter level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



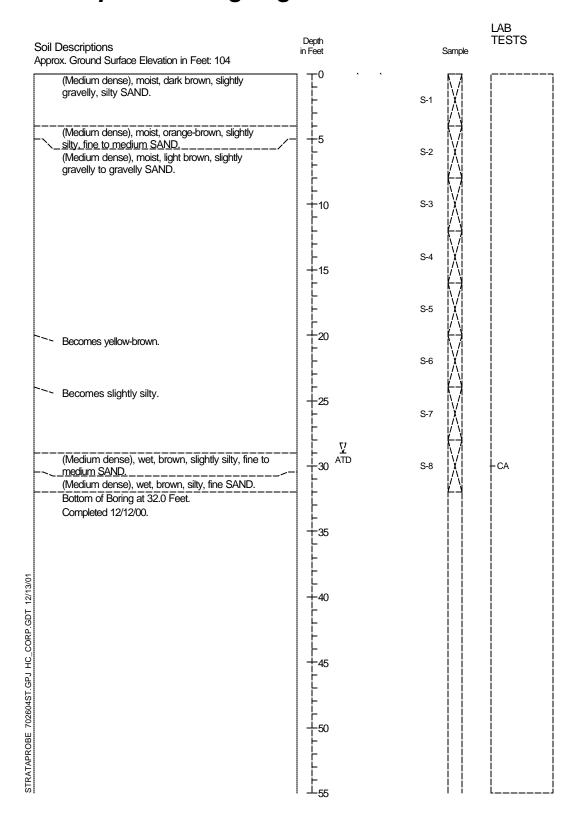


J-7026-04 Figure A-15

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

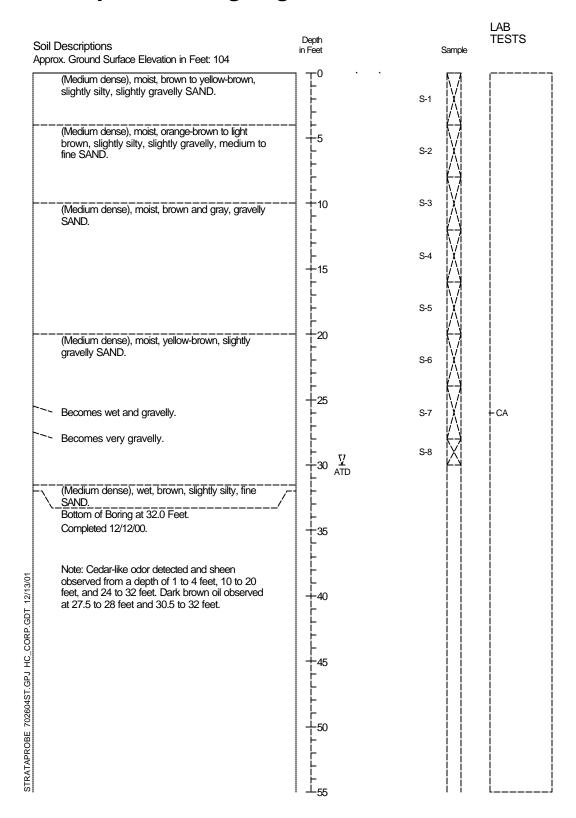
Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





J-7026-04 Figure A-16

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with



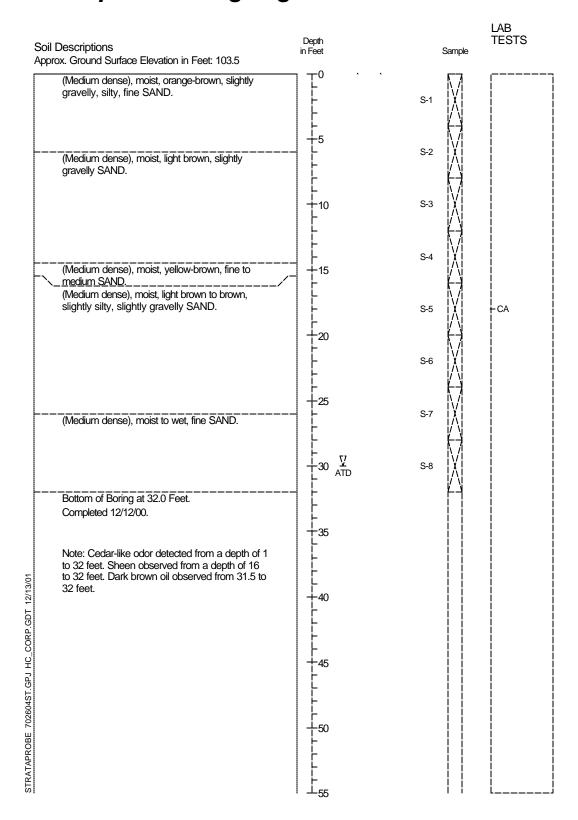


J-7026-04 Figure A-17

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



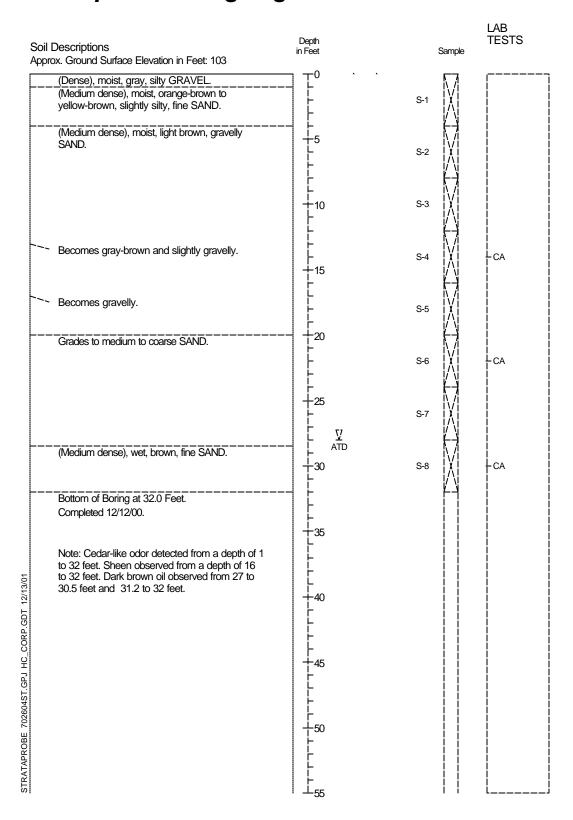


J-7026-04 Figure A-18

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





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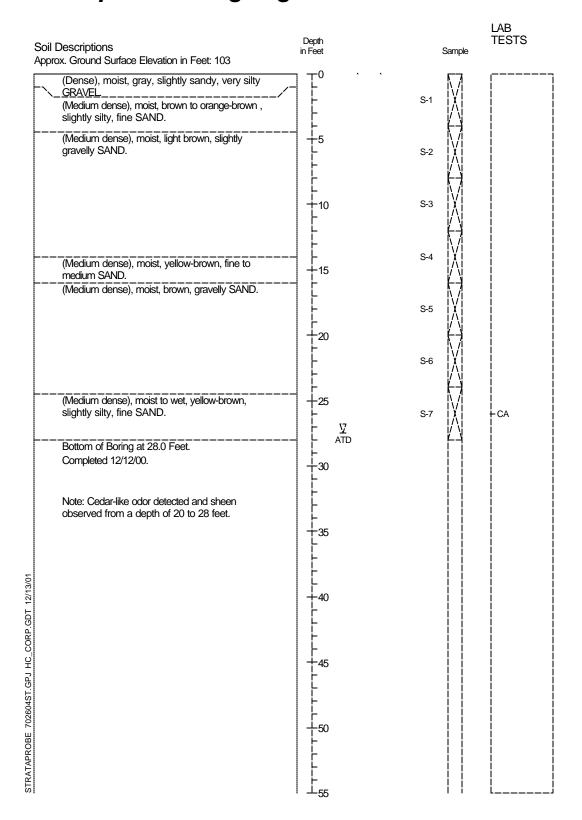
12/00

Figure A-19

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

^{3.} Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

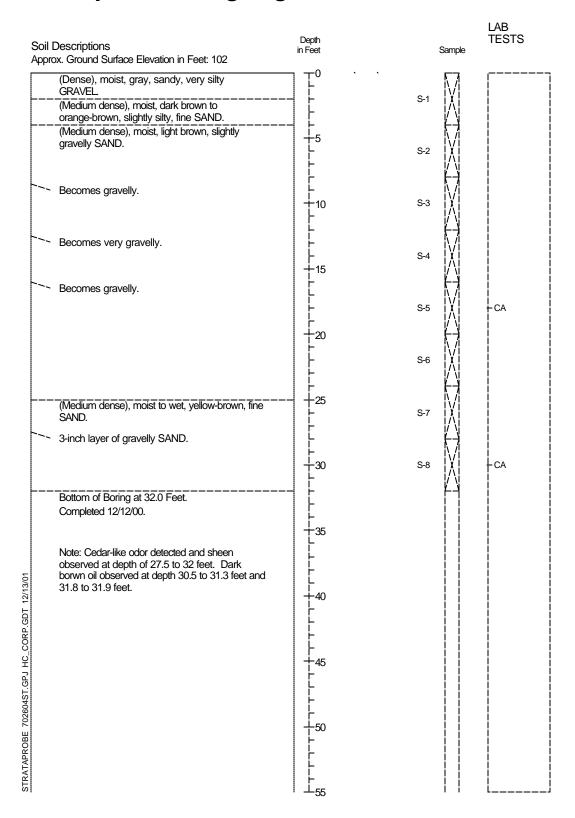




Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

J-7026-04 Figure A-20

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

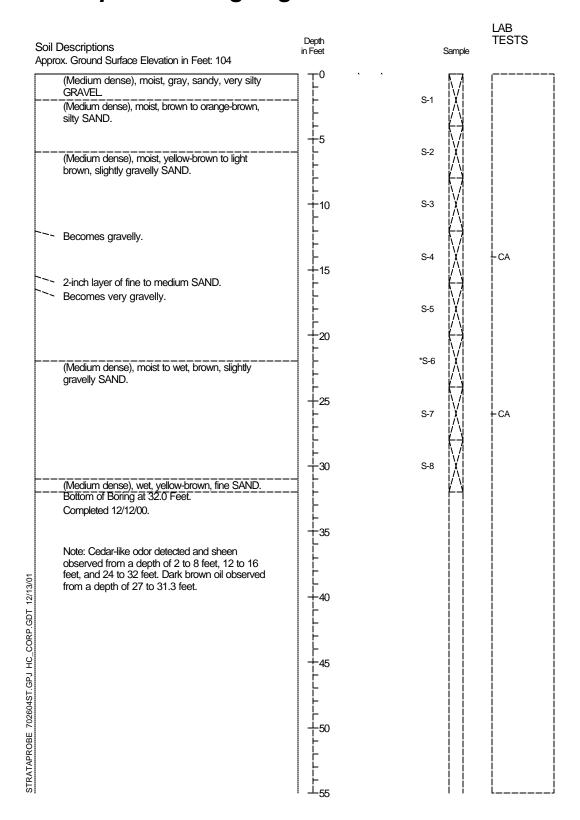




J-7026-04 Figure A-21 12/00

 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

1. Refer to Figure A-1 for explanation of descriptions and symbols.





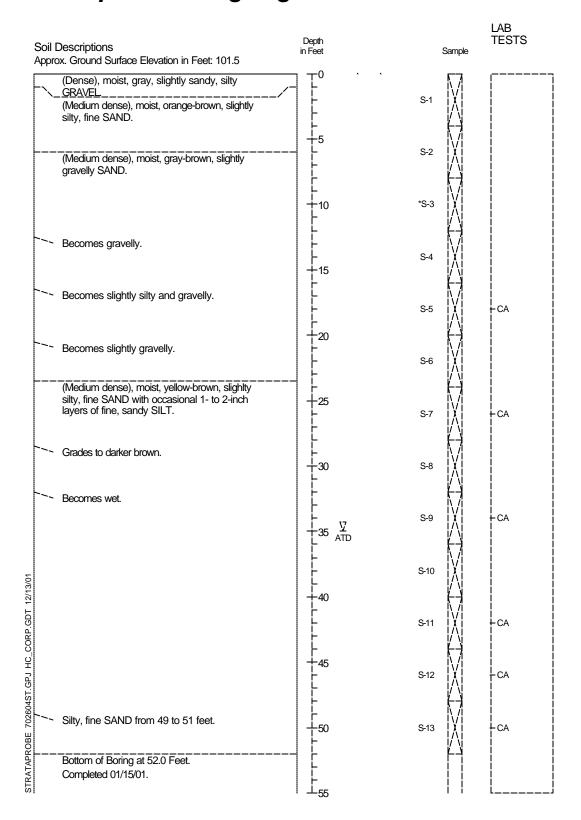
12/00

1. Refer to Figure A-1 for explanation of descriptions and symbols.

2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

J-7026-04 Figure A-22

^{3.} Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with



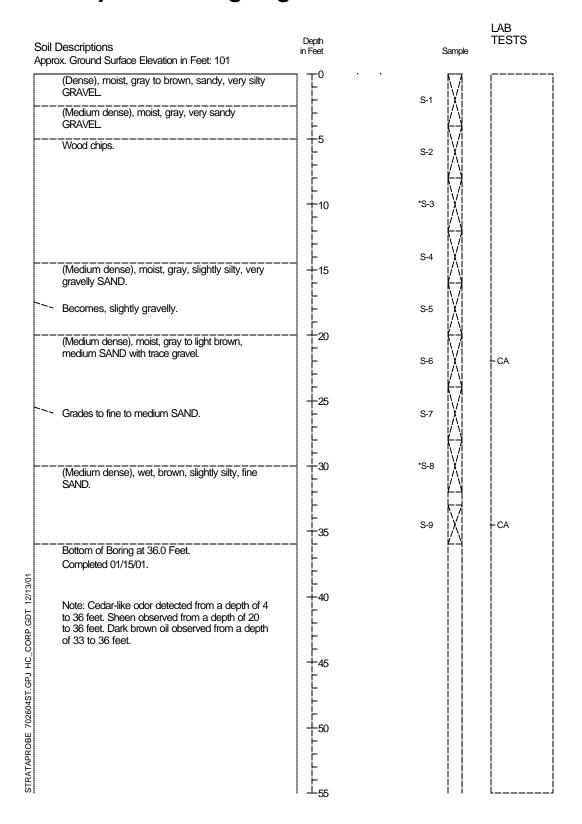


J-7026-04 Figure A-23

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

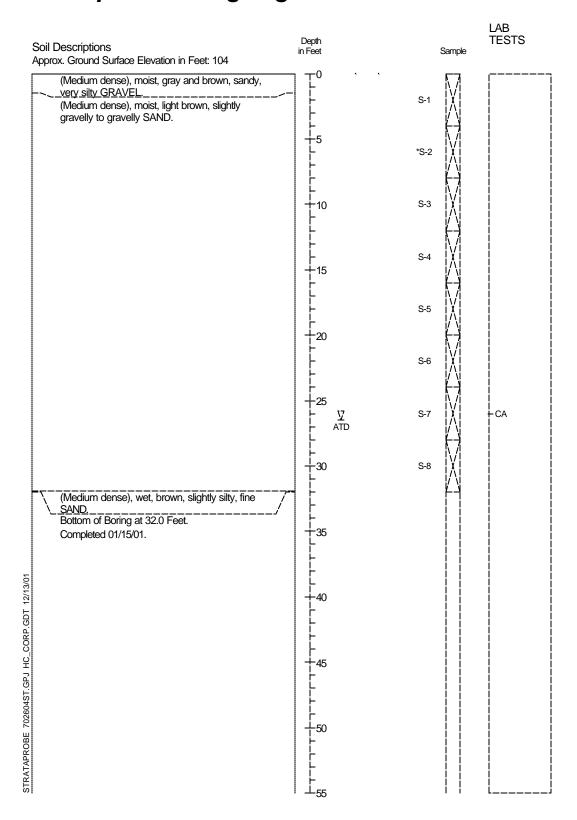




1. Refer to Figure A-1 for explanation of descriptions and symbols.

2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

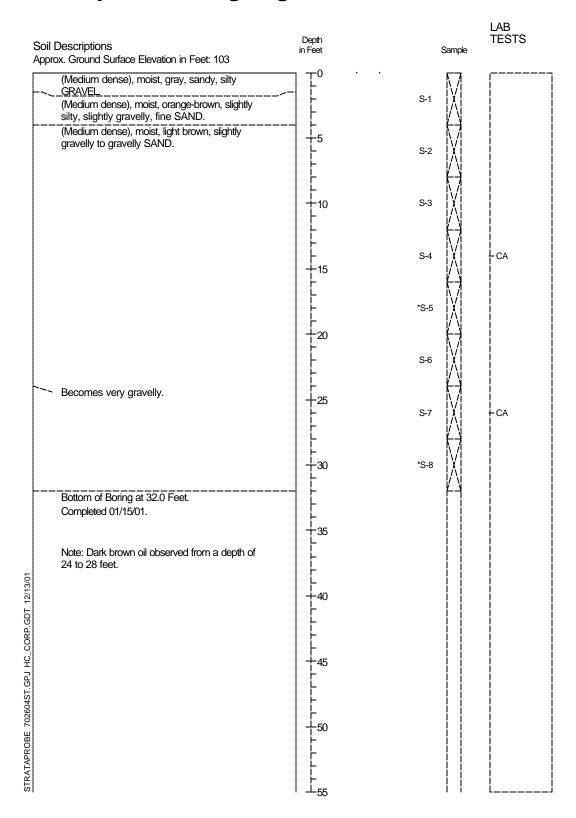
^{3.} Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





J-7026-04 Figure A-25 01/01

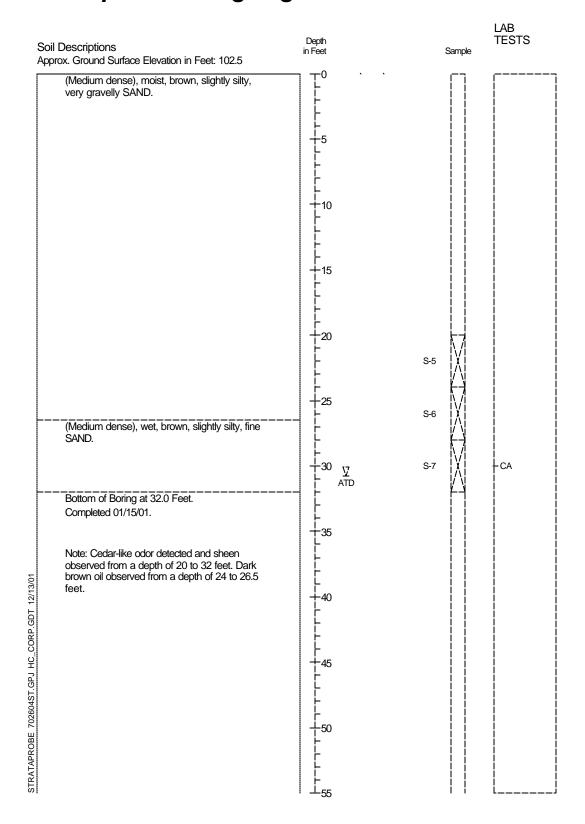
Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with





J-7026-04 Figure A-26 01/01

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

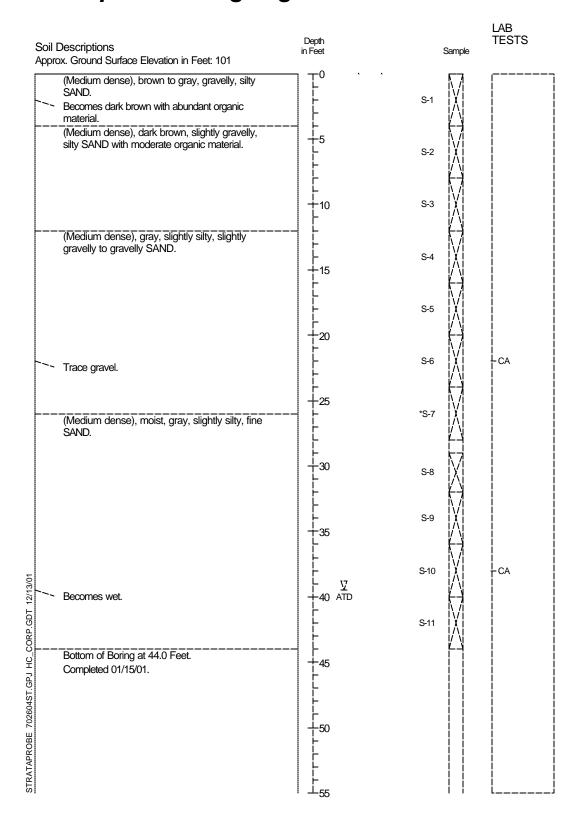




01/01

J-7026-04 Figure A-27

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





1. Refer to Figure A-1 for explanation of descriptions and symbols.

2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

J-7026-04 Figure A-28 01/01

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Projec	t: Ba	xte	Arlington ton, Washington	Log of Monitoring Well No. MW-1					
Date Sta				Total Depth: 49.5	ft. Ca	sing Elev: 100	1.9 ft Depth to GV	/: 28 ft.	
Date Cor	ripleted:	8/24/	90	Perforation: 0.01	Siot Sch	40 PVC	From: 23.0 ft 1	o: 43.0 ft	
	3y: D. W			Pacic: #10/20 Col	iorado Si	ica Sand	From: 20.0 ft		
rilling C	o: Soil S	amp	ling Service Driller: Ketvirtis	Seal: Bentonite F	² ellets		[<u></u>	To: 20.0 ft	
Drilling M	lethod : (i ID	Hollow Stem Auger	Bentonite Siurry	10 51/0		From: 17.0 ft	To: surf.	
Orilling E	quipmen	t Mo	bile Drill B-61	Casing: 4° Sch. Sampler: 3° OD	40 PVC Split-Spo	οσι			
Depth Sa	mple	blow count	LITHOLOGIC DESCR	IPTION	Lith- ology	Mon. Well Installation	REMARKS	···	
08	1	<u>σ</u> ο		LOD	100	X			
		8	med. dense moist, gray sand trace of silt	gravel (GP),	P				
5	X	7					OVA ⇒ 0 ppm		
10	X	8 16 17	light gray at 9 ft.				OVA = 0 ppm		
15 —	X	18 20 20					OVA = 1 ppm		
20	X	13 15 14					OVA ≃1 ppm		
25 —	X	8 13 19	CA		2 4 GP 19 19 19 19 19 19 19 19 19 19 19 19 19		OVA = 2 ppm		
-	X	8 9 8	medium dense, saturated, grafine sand (SP-SM), trace of si (SM) at 29 ft.		SP.SM		OVA = 0 ppm		
Pro	ject 90	CO		de Consultan	ts		page 1	of 2	
									

Proje			Arlington , Washington	Log of	Мог	nitoring W	Vell No. MW-1
Depth (feet)	Sample	blow	LITHOLOGIC DESCRIPT	ПОИ	Lith- ology	Mon. Well Installation	REMARKS
35 _	×	8 13 19	medium dense, saturated, gray f sand (SP), trace of silt	īne	SP		OVA ≃ 0 ppm
40	· · ·	8 11 14			Antenia de la Constitución de la Co		OVA = 0 ppm
45		9 10 14				эголан	OVA = 0 ppm
50 -	X	9 12 17	Bottom of boring at 49.5 feet.		SP		OVA = 0 ppm
55 -							
Pro	Dject 90	C0456	SA Woodward-Clyde Co	nsultants	S		page 2 of 2

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Proje	ect: Ba	ıxte: Irling	r Arlington ton, Washington	Log of Monitoring Well No. MW-2					
Date S	tarted: 8/	2/90		Total Depth: 49.5	ft. C	asing Elev: 98.	5 ft. Depth to GW: 43 ft.		
Date C	ompleted:	8/23/	90	Perforation: 0.01	From: 27.5 ft To: 47.5 ft				
Logged	8y: D. W	aker		Pack: #10/20 Col	orado Si	lica Sand	From: 49.5 ft To: 24.5 ft		
Orilling	Co: Soil	Samp	ling Service Driller: Ketvirtis	Seal: Bentonite P	eilets		From: 24.5 ft To: 21.5 ft		
Drilling	Method :	6" ID	Hollow Stem Auger	Bentonite Slurry			From: 21.5 ft To: surf.		
Drilling	Equipmen	ıt: Mo	bile Ortil B-61	Casing: 4" Sch. Sampler: 3" OD					
Depth (leet)	Sample	blow	LITHOLOGIC DESCRI	PTION	ology	Mon. Well Installation	REMARKS		
5 -	X	9 8 15 21	medium dense, moist, gray gr (SP) dense, moist, gray sandy grav gravel to 2"		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		OVA = 0 ppm OVA = 0 ppm		
15	X	11 18 24					OVA = 0 ppm OVA = 0 ppm		
20 -		25 15 25	dense, moist, coarse to medium (SP), trace of gravel	m gray sand					
25	X	11 17 18	medium to fine sand		SP		OVA = 0 ppm		
		22 45 30	very dense, moist, sandy grav (GP), gravel to 2-1/2*	el			OVA = 0 ppm		
P	roject 9	CO.	456A Woodward-Cly	de Consultani	ls		page 1 of 2		

Project: B		rlington , Washington	Log of Monitoring Well No. MW-2				
Sample	blow count	LITHOLOGIC DESCRIP	TION	Lith- ology	Mon. Well Installation	REMARKS	
35	11 15 17	dense, moist, gray fine sand (Sa	 P-SM)	SP-SM GP		OVA = 0 ppm	
40	11 19 25			a second prime and the		OVA = 0 ppm	
45	9 16 21 8 15 19	saturated, some gravel		SP-SM]		OVA = 0 ppm OVA = 0 ppm	
55 -		Bottom of boring at 49.5 feet.					
Project 9	90C045	6A Woodward-Clyde Co	onsultant	S		page 2 of 2	

Pro			Arlington ton, Washington	Log of Mo	nitori	ng Well N	lo. MW-3	0.892
Date	Started: 8/2	4/90		Total Depth: 50.0	ft_ C	asing Elev: 98.	2 it: Depth to GW:	38 ft.
Date	Completed:	8/27/	90	Perforation: 0.01	Stor Sch	From: 29.5 ft To	: 49.5 ft	
Logg	ed By: D. W	alker		Pack: \$10/20 Col	orado S	lica Sand	From: 26.0 ft To	: 49,5 ft
Dritten	g Ca: Soil S	Samp	ling Service Driller. Ketvirtis	Seat: Bentonite P	ellets		From: 26.0 ft To	: 23.0 ft
Drillin	g Method :	5" ID	Hollow Stern Auger	Bentonite Slurry			From: 23.0 ft To	o: surf.
Orillin	g Equipmen	it: Mo	bile Drill B-61	Casing: 4° Sch. Sampler: 3° 00				
<u> </u>	 			,				
Depth (feet)	Sample	plow count	LITHOLOGIC DESCR	IPTION	Lith- ology	Mon. Well Installation	REMARKS	
5		977	medium dense, dry, gray sand trace of silt	dy gravel (GP),			OVA = 0 ppm	
10 -	- X	8 6 7					OVA = 0 ppm	
15 -	- X	6 10 8	maist				OVA = 0.5 ppm	
20 -		6 10 13					OVA ⇒0 ppm	
25 -		5 11 16	medium dense, moist, gray fin sand (SP/SM), becomes slight sand (SP/SM) below 24 ft.		SP-SM SS S		OVA ≃ 0 ppm	
I		8 12 16	medium dense, moist, gray fir (SP/SM), trace of silt:, slightly 29 ft.		T.		OVA = 0 ppm	·
	Project 9	0C0	456A Woodward-Ciy	de Consultan	ts		page 1 c	of 2

P

Project: Baxter Arlington Arlington, Washington				Log of Monitoring Well No. MW-						
(leet)	Sample	blow count	LITHOLOGIC DESCRIP	TION	Lith- ology	Mon. Well Installation	REMARKS			
35 -	X	11 19 19	dense, becomes fine to medium below 33.5 ft.	ı s a nd	SP-SM		·			
40	X	8 8 10	medium dense, saturated, silty fi (SM) below 38.0 ft.	îne sand						
	X	14 24 32	very dense, saturated sandy gra (GP), coarse to fine sand	vel	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
50	X	10 31 28								
 - - -		***************************************	Bottom of boring at 50.0 feet.							
55 +										
ر ر	ject 90	C045	6A Woodward-Clyde C	Consultants			page 2 of 2			

Project: BAXTER

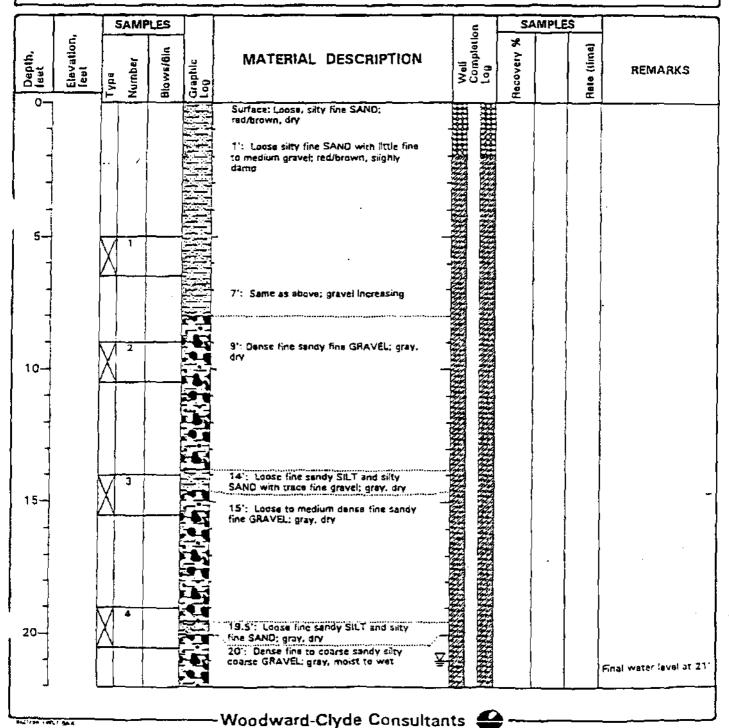
Project Location: ARLINGTON

Project Number: 90C0456A/6000

Log of Boring MW-4

Sheet 1 of 2

Date(s) Drilled	8/26/94	Legged G. DAVIS	Checked By	M. OTTEN
Drilling Mathod	HOLLOW STEM AUGER	Top of PVC Bevation (feet) 98.17	Total Depth Orded (feet)	40.0
Drift flig Type	B-61 HSA	Oriled By TACOMA PUMP AND ORILLING, INC.	Hammer Weight/ Drop (lbs/in.)	140#/30"
Groundwater Lavel (ft bgs)	21	Sampler SPLIT SPOON	Approx. Surface Elevation (feet)	NOT SURVEYED
Diameter of Hole (inches)	B Diameter of 4 Well (Inches)	Type of SCH 40 PVC	Screen Perforation	0.010" PVC SLOT
Type of Sand Pack	10/20 SILICAL SAND	Type/Thickness CONCRETE 0-2 FT BENTON(T of Seal(s)	E 2-27 FT	
Comments	UP GRADIENT WELL	· ·		



Project: BAXTER

Project Location: ARLINGTON
Project Number: 90C0456A/6000

Log of Boring MW-4

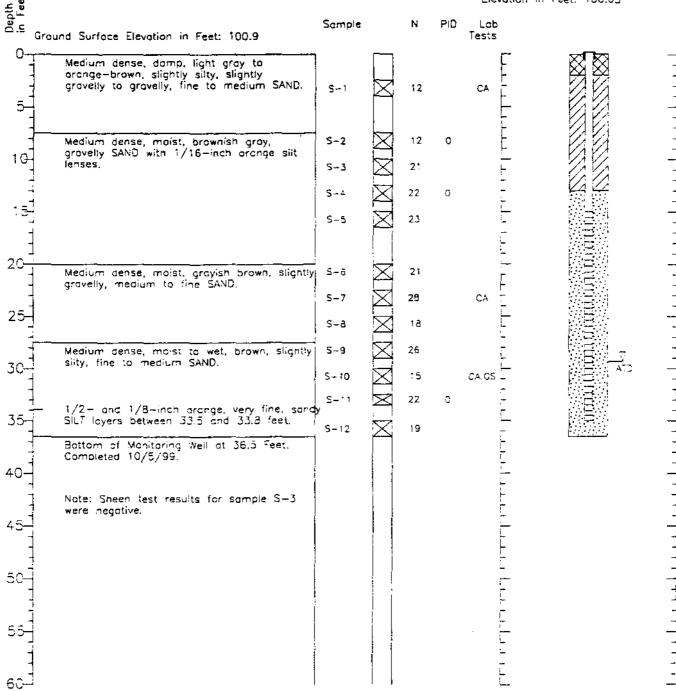
Sheet 2 of 2

		SAN	APLES	:		<u> </u>		MPLES		
Depth, feet	Elevation, feet	Type			MATERIAL DESCRIPTION	≥្ពីខ្លុ	Recovery %		Rete (time)	REMARKS
35		5			29": Very loose silty fine to coarse gravelty, fine to coasse SAND; gray, very wet to bottom of boring Boring terminated at 40 ft below ground surface				1750	
3/21/54 1W	VLI BAK					ultants 🗧	-			

Geologic Log

Monitoring Well Design

Top of Casing Elevation in Feet: 100.63



HARTCROWSER 10/99 J-7026-02 Figure A-9

CAB 1 06 2/23/00 1-1

^{1.} Refer to Figure A+1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive

and actual changes may be gradual.

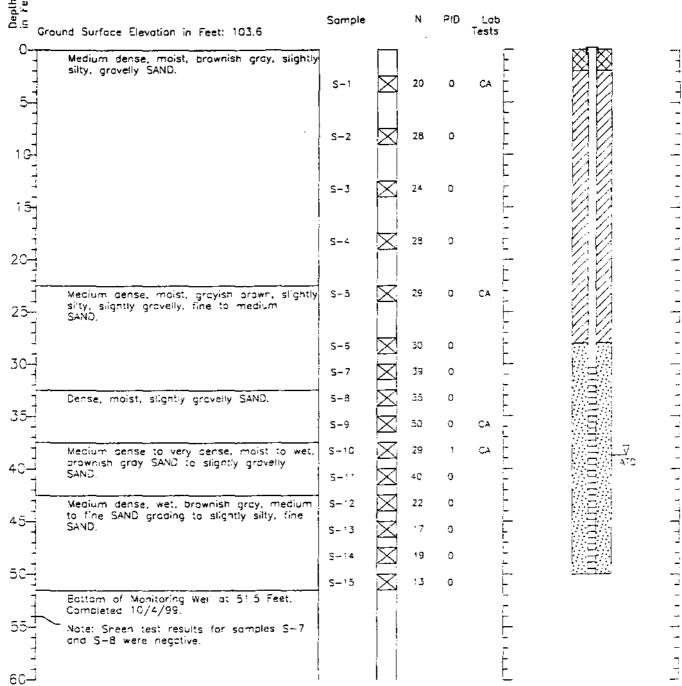
3. Ground water level, if indicated, is at time of arilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well HC-MW-6

Geologic Log

Monitoring Well Design

Top of Cosing Elevation in Feet: 103.25



Refer to Figure A=1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive

and actual changes may be gradual.

3. Grauna water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

60-**J**

Boring Log and Construction Data for Monitoring Well HC-MW-7

Geologic Log

Well Design Top of Casing Elevation in Feet: 101.68 Sample Lob Ground Surface Elevation in Feet: 101,9 Tests 0 Topsail. Orange to light brown, medium to fine 5-Medium dense, moist, fight brown, slightly silty SAND. 16 Medium dense, moist, brownish gray, 1 Ggravelly, coarse to medium SAND. Medium dense, moist, brown, fine to medium 21 15-5-4 20 20 5~5 33 Mealum dense, moist, prownish gray, slightly gravelly SAND. 5-6 31 Medium dense, maist, brown, slightly silty, 30 fine SAND. 43 Dense, moist, prownish gray, medium to fine S-7 35 24 Medium dense, maist, grayish prawn, siightly gravelly SAND. 40. S-9 30 CA Medium dense, wet, gray, slightly silty, fine to medium SAND. 5-10 38

5-11

Medium dense, wet, gray, medium to coarse

Very dense, wet, gray, fine to medium

Bottom of Monitoring Weit at 54.0 Feet. Completed 10/7/99.



Monitoring

Refer to Figure A=1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive

and actual analyses may be gradual.

3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

PROJECT NAME J.H. Baxier South Woodwaste Landfill

See Figure 1 LOCATION DRILLED BY Pacific Testing Lab

DRILL METHOD H.S. Anger LOGGED BY

G.S. Mack

BORING NO. PAGE

BXS- 1 10F2

SURFACE ELEV. TOTAL DEPTH

49.00 DATE COMPLETE 7/11/88

	SAMPLE ROMER	SHOTE TIPE	GROVER LEVELS	雅明		2003	ormai Sybeic Tibo-	DESCRIPTION
	1	SPI		5 -	7		XX	0 - 1 foot: SOIL. 1 - 4 feet: SAND; with gravel, dark yellowish brown, sand is fine to medium, gravel is subangular to subrounded, slightly damp. (SW) 4 - 14 feet: GRAVELLY SAND; mortled yellowish gray to olive gray, sand is fine to
	2	SPT		10		**************************************		coarse, gravel is subround to subangular, damp. (SW)
!	3	SPT	لدييملي	15 -	2	XXXX		14 - 49 feet: SAND; medium olive gray, sand is
	4	SPT	والمسالية	20 -		XXXXXXXX		fine to medium, thinnly interbedded silt. Trace of gravel at 38 feet, wet at 37 feet. (SP)
	5	SPT		25	X	XXXXXXXX		
	6	SPT	المدالمة	30 -		XXXXX		
	7	SPT	مطوميطييه	35		A 6.000		
	8	SPT	t ¥	-		4		



REMARKS

1) Measuring point elevation: 99.60. 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".

SWEET-EDWARDS/ENCON

BAXTR.COT.01/19/89

PROJECT NAME J.H. Baxter South Woodwaste Landfill

LOCATION See Figure 1
DRILLED BY Pacific Test
DRILL METHOD H.S. Anger

See Figure 1 Pacific Testing Lab

LOGGED BY

G.S. Mack

BORING NO.

BXS-1

PAGE SURFACE ELEV. 2 OF 2

TOTAL DEPTH

DATE COMPLETE 7/11/88

SAMPLE NUMBER	SMOLE TIPE	CECERS PFTH	SAMPLES	METAL DETAILS	COLUMN MAPPIC LITEO-	DESCRIPTION
9	SPT	45				(continued) 14 - 49 feet: See previous page for lithologic description.
10	SPT	70				Boring terminated at 49 feet. ADDITIONAL REMARKS: Well Construction Details - 0-39 feet, 2 inch schedule 40, PVC, blank riser pipe; 39-49 feet, 2 inch schedule 40, PVC, 0.020 inch slotted. Backfill - 0-1 foot, concrete; 1-4 feet, dry bentonite chips and heave; 4-34 feet, bentonite slurry; 34-37 feet, natural heave; 37-49 feet, sand, Colorado Silica, 10-20.



REMARKS

SWEET-EDWARDS/INCOM

BAXIR.CJF.01/19/69

PROJECT NAME J.H. Bexter South Woodwaste Landfill

LOCATION DRILLED BY See Figure 1 Pacific Testing Lab

DRILL METHOD H.S. Anger LOGGED BY

G.S. Mack

BORING NO.

BXS-2 PAGE SURFACE FLEV.

1 OF 2 54.00

TOTAL DEPTH

DATE COMPLETE 7/6/88

2000	يو ريو:		MINCE				DATE COMPLETE //6/88
	ingle Mger	Libs Smart	GROUPS FEVERS	MFTH.	SAMPLES		DESCRIPTION .
				-			0 - 4 feet: FILL; wood chips, moderate to dark yellowish brown.
	1	SPT	مرامديبالم	5-			4 - 14 feet: SAND and GRAVEL; mottled light to olive gray, sand fine to coarse, gravel subangular to subrounded, damp. (SW/GW)
	2	SPT	والمسالية	10 ~			
			بلسمطين	15 -		XXXXX	14 - 54 feet: SAND; light olive gray, sand is fine with some medium, some silt as thinnly bedded silt, sand layers, moist. (SW/SM)
	3	SPT	مسلسب	20 -		66.6	
	4	SPT	والماد	25 ~			
	5	SPT	l Line Line Line Line Line Line Line Line	30 ~		466666	
	6	SPT	متلدييات	35 ~		9.9.9.9	
	7	SPT	ξŞ			1465	



REMARKS

1) Measuring point elevation: 99.81. 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".

PROJECT NAME J.H. Baxter South Woodwaste Landfill

LOCATION DRILLED BY

See Figure 1 Pacific Testing Lab

DR LO

BORING NO. PAGE

BXS-2 2 OF 2

SURFACE ELEV.

RILL METHOD	H.S. Anger	TOTAL DEPTH DATE COMPLETE	54.00
OGGED BY	G.S. Mack		7/6/88

SMOLE NOGER	TIPE	製造といる	THO- APRIC DESCRIPTION
8	SPT	45	(continued) 14 - 54 feet: SAND (SW/SM); see previous page for lithologic description.
9	SPT	50	
10	SPT	55	Boring terminated at 54 feet. ADDITIONAL REMARKS: Well Construction Details - 0-42 feet, 2 inch schedule 40, PVC, blank riser pipe; 42-52 feet, 2 inch schedule 40, PVC, 0.020 inch slotted. Backfill - 0-1 foot, concrete; 1-20 feet, bentomite slurry; 20-41 feet, Native heave; 41-52 feet, sand, Colorado Silica, 10-20; 52-54 feet, Native heave.



REMARKS

BAXIR.CIT.01/19/89/

PROJECT NAME J.H. Baxter South Woodwaste Landfill

LOCATION DRILLED BY See Figure 1

Pacific Testing Lab

DRILL METHOD H.S. Anger G.S. Mack LOGGED BY

BORING NO.

BXS-3 1 OF 2

PAGE

SURFACE ELEV.

TOTAL DEPTH

44.00

DATE COMPLETE 7/7/88

	SMGTA HUNGER	Sample Tipe	egoteno L'Evels	滞 评		HELL ETAILS	Litro- Daphic Colons	DESCRIPTION
	i	SPT		5	5			0 - 2 feet: SOIL. 2 - 21 feet: GRAVELLY SAND; mortled to moderate yellowish brown to medium gray, sand is fine to coarse, gravel to 2" subrounded to subangular, trace of silt, poorly graded,
	2	SPT		10	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			medium dense to dense, moist. (SW)
	3	SPT		15	7			
	4	SPT		20 -				
	5	SPT		25				21 - 44 feet: SAND with SILT; light olive gray to medium gray, trace of clay, sand is fine to medium, stratified fine sand, medium sand, and silt, medium dense, moist, wet below 35 feet, very soft to soft. (SP)
	6	SPT		30 -	2	4 4 4 4 XX		
	7	SPT	E E ¥ E	35				
	8	SPT	<u> </u>	- 40	Š			



REMARKS

1) Measuring point elevation: 99.03 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".

EET-EDWANDS/EMCON

BAXTR. CIT. 01/19/89/

PROJECT NAME J.H. Baxter South Woodwaste Landful

LOCATION DRILLED BY See Figure 1 Pacific Testing Lab

DRILL METHOD H.S. Anger LOGGED BY

G.S. Mack

BORING NO. PAGE

BXS-3 2 OF 2

SURFACE ELEV.

TOTAL DEPTH

44.00 DATE COMPLETE 7/7/88

SAMPLE MEMORIA	Shapile Tibe	STANET BURNETS	NEPTH.	MELL	LITEO- BAPEIC COUNE	DESCRIPTION
9	SPT		45 50 55 60 65 70			(continued) 21 - 44 feet: See previous page for lithologic description. Boning terminated at 44.0 feet. ADDITIONAL REMARKS: Well Construction Details - 0-32 1/2 feet, 2 inch schedule 40, PVC, blank riser pipe; 32 1/2-42 1/2 feet, 2 inch schedule 40, PVC, 0.020 inch slotted. Backfill - 0-1 foot, concrete; 1-27 feet, bentonite slurry; 27-31 feet, Natural heave; 31-42 1/2 feet, sand, Colorado Silica 10-20.
		المستعظمين المستومل ومرسل ومرسل في مرا و مرسل و مرسل	65 70 75 75 75 75 75 75 75 75 75 75 75 75 75			



REMARKS

SWEET-EDWARDS/12400M

BAXIR_CIT.01/19/89

ROJECT NAME J.H. Baxter South Woodwaste Landfill

CATION

See Figure 1 RILLED BY Pacific Testing Lab

LOGGED BY

BORING NO.

BXS-4

PAGE

1 OF 2

SURFACE ELEV.

TOTAL DEPTH

RILL METHOD H.S. Anger OGGED BY G.S. Mack

DATE COMPLETE 7/8/88

	1356.7 Holder	SMG12 TIPE	GROUED LEVELS DEPTH	SANPLES		DESCRIPTION
	1	SPT	مانيينلينينا			0 - 1 feet: FILL; sand and gravel. 1 - 17 feet: GRAVELLY SAND; mortied light to dark yellowish brown, sand is fine to coarse, gravel weathered, subangular to subrounded, loose, moist, loose to dense. (GW)
i !	2	SPT	ت بنسطین ادرین			
(3	SPT				
	4	SPI	20		××××××××××××××××××××××××××××××××××××××	17 - 24 feet: SAND; olive gray, sand is fine to medium, medium dense to dense, moist. (SP)
	5	SPT	2 1 1 1 1 1 2			24 - 37 feet: SILTY CLAY; medium plasticity,
	6	SPT	*	W.	XXXXXXX	low dry strength, light olive gray, very soft to soft. (ML)
	7	SPT	3.		<i>ሴ</i> ላ ላ ላ	
	8	SPT		KZIII		37 - 49 feet: SILTY SAND; with gravel, olive gray, decrease silt with depth, water bearing at 38 feet (confined aquifer), dense to very dense. (SW)



REMARKS

1) Measuring point elevation: 100.37 2) SPT = standard split spoon sampler. See end of DESCRIPTION column for "ADDITIONAL REMARKS".

SWEET-EDWARDS/ENCON

BAXER.CJT.01/19/89

ROJECT NAME J.H. Baxter South Woodwaste Landfill

CATION TLED BY See Figure 1 Pacific Testing Lab

LOGGED BY

CILL METHOD H.S. Anger OGGED BY G.S. Mack

BORING NO.

BXS-4 2 OF 2

PAGE SURFACE ELEV.

TOTAL DEPTH

49.00

DATE COMPLETE 7/8/88

 SMATT MARK	2754 SPART	GROUER LEVELS	RFP.	SAMPLES	WELL STAILS	LITTO- BLAPEIC COLUMN	DESCRIPTION
9	SPT		45 -				(continued) 37 - 49 feet: See previous page for lithographic description. (SW)
		المعتب المستديل ويتمال ويتمينا ويتمام ويتمام ويتمام ويتمام ويتمام والمتحر والمتحر والمتحر والمتحر المتحر	50 55 60 70 75				Boring terminated at 49 feet. ADDITIONAL REMARKS: Well Construction Details - 0-37 1/2 feet, 2 inch schedule 40, PVC, blank riser pipe; 37 1/2-47 1/2 feet, 2 inch schedule 40, PVC, 0.020 inch slotted. Backfill - 0-1 foot, concrete; 1-32 feet, bentomite slurry; 32-36 feet, Native heave; 36-47 1/2 feet, sand, Colorado Silica, 10-20; 47 1/2-49 feet, Native material.

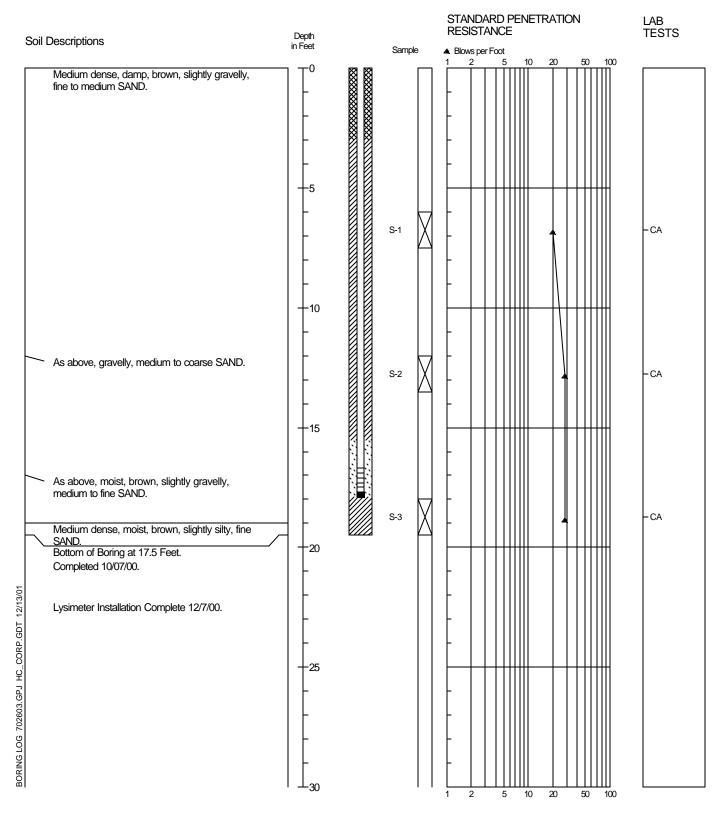


REMARKS

SWEET-EDWARDS/EMCON

BAXER_CJF.01/19/89/

Boring Log and Construction Data for Lysimeter L-1





J-7026-03

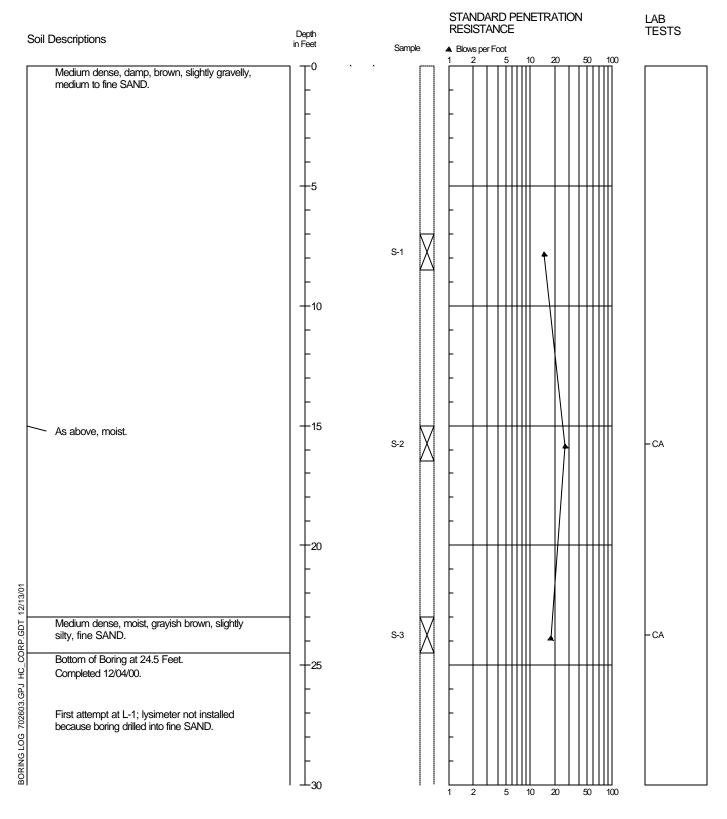
10/00

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with firme.

Boring Log L-2A



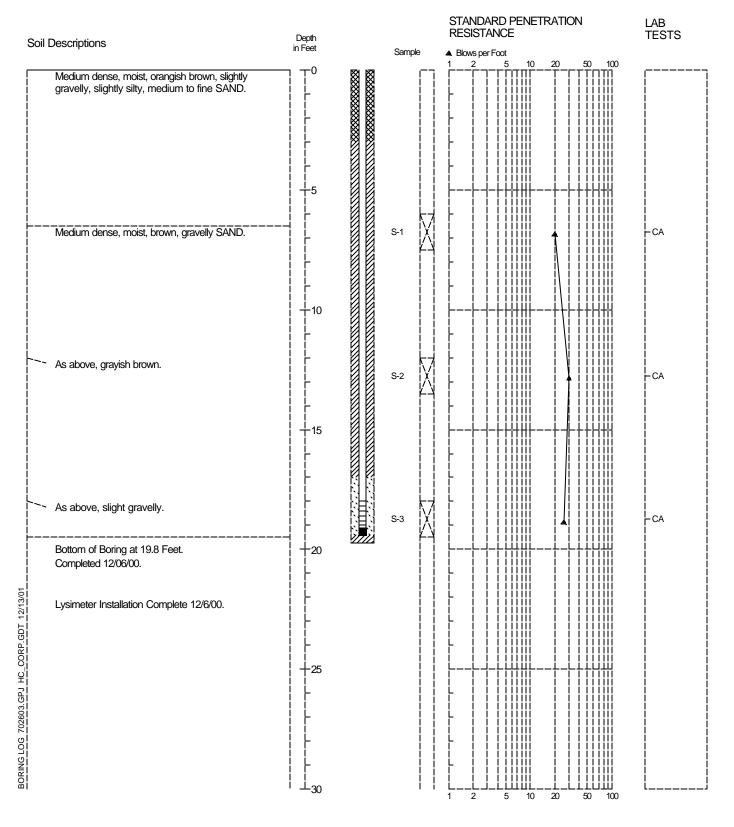


J-7026-03

12/00

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Lysimeter L-2





J-7026-03

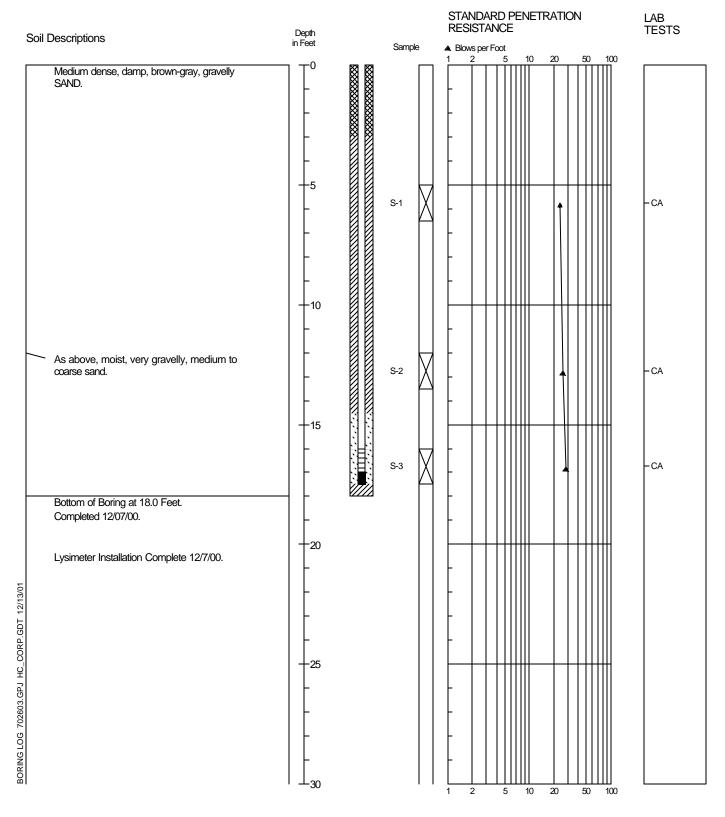
12/00

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with firme.

Boring Log and Construction Data for Lysimeter L-3





J-7026-03

12/00

^{1.} Refer to Figure A-1 for explanation of descriptions and symbols.

^{2.} Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with firme.



Borehole ID: SB35 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright Drilling Date(s): 8/23/2002

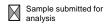
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Total Depth: 34 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
<u> </u>					000		-FILL, road gravel, angular.	
F ,		$ \times $				SM	Silty SAND with gravel, gray.	
_ 2			100	0/N		Olvi	color change to black SAND with gravel, brown.	
— 4 — 6	SO154		100	0/N			SAND With graver, blown.	
- 8			100	0/N		SW		
L 10			80	0/N				
12			80	0/N	0000	GW	GRAVEL with sand, brown and gray.	
- 12 - 14		\times	80	0/N			SAND with gravel, brownish gray.	
_ 14 _ 16	SO168		80	0/N				rout
			80	0/N				bentonite grou
18			80	0/N				pen
20			80	0/N				
22			80	0/N		sw		
24 			100	0/N				
26			100	0/N				
28 	SO175		100	0/N		abla	Water encountered at 29 feet.	
30			100	0/N			SAND, brown, wet.	
32			2					
34							Total depth 34 feet.	













Borehole ID: SB36 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/23/2002

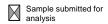
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Total Depth: 34 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0					000		FILL, road gravel, angular.	
_ 2			100				SAND, brown, trace gravel.	
			100					
 4	SO150		80	0/N			SAND with gravel, brown.	
- 6	00100					SW	-	
8			80	0/N				
		\times	80	0/N				
10			80	0/N				
12			0				No recovery, rock blocked auger.	
<u> </u>			0		www			
	SO155	X	80	0/N			SAND, brown, trace gravel.	no
16			80	0/N			SAND with gravel.	bentonite grout
<u> </u>			80	0/N		SW		bentc
20								
		\boxtimes	80	0/N				
		\times	75	0/N	0000	GW	GRAVEL with sand.	
<u> </u>			75	0/N		sw	SAND with gravel.	
26		$\langle \cdot \rangle$		0 / 1			Fine to medium SAND.	
<u> </u>			80	0/N				
	SO162	X	80	0/N			Water encountered at 29 feet.	
30			25	0/N		SP		
32			25					
<u> </u>			20				Total double OA Cont	
36							Total depth 34 feet.	













Borehole ID: SB37 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA
Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/23/2002

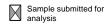
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Total Depth: 39 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym	oup	Lithologic Description	Borehole Completion
0 2 4			80	0/N	000		FILL, road gravel, angular. Fine to medium SAND with gravel brown.	
_			85	0/N				
8	SO134		85	0/N			Medium to coarse SAND with gravel,	
6 10			85	0/N			brownish gray.	
_ 10 _ 12			85	0/N		SP		
12 14	SO137		85	5.8/N				
14 16		\times	85	7.9/N				
18			85	4.7/N				chips
			85	6.9/N				bentonite chips)
			85	5.8/Y				ď
24	SO142		85	31.0/Y	0000		GRAVEL with sand, brownish gray, residual NAPL observed.	
24 26			85	29.6/Y	0000	GW		
28			85	31.0/Y	0000			
30		\times	85	14.8/Y	0000		Fine to medium SAND, brownish gray.	
32	SO146		100	0/N		∇	Water encountered at 31 feet.	
32 34			100	0/N		SP		
_ 34 _ 36			100	0/N				
		><						





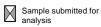








Boreh	ole ID: 3	SB37						Page 2 of 2
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Sym	oup nbol	Lithologic Description SAND with gravel, brown.	Borehole Completion
38		\geq	50 50	0/N		SP	Fine to medium SAND, brownish gray.	
<u> </u>							Total depth 39 feet.	
_ 42								
44								
_ _ _ 46								
— 48 —								
<u> </u>								
— 52 —								
54								
56								
58								
60								
<u> </u>								
64								
66								
_ 68								
_ 								
							·	
— 72 —								
— 74 —								
76 _								
78 								
80								













Borehole ID: SB38 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/27/2002

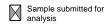
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Total Depth: 37 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 2 2					000	SW-	FILL, road gravel, angular. SAND with silt, brown.	
- 4 - 6	SO205		75	39.5/Y			SAND with gravel, brown.	
8			75	53.3/Y				
- 10			50	45.8/Y		sw		
12			50	19.9/Y				
_ _ _ 14			50	16.5/Y	0000			
<u> </u>			100	22.9/Y	0000		GRAVEL with sand, brownish gray.	
18	SO211		100	45.4/Y	0000	GW	Residual NAPL observed at 16 feet.	bentonite grout)
_ 20			100	21.4/Y	0000			bentonit
_ 			100	8.3/Y			SAND with gravel, brownish gray, residual NAPL observed.	
_ 24			100	6.4/Y		SW		
_ 26			100	7.1/Y				
_ 28	SO216		100	3.4/N		SP	Fine to medium SAND, brown, moist.	
30			100	1.1/N				
32	SO218		100	0/N		SM	Fine silty SAND, brown and red layering, wet.	
34			100	0/N		C C	Fine SAND, brown, wet. Water encountered at 32 feet	
_ 36			100	0/N		SP	Total don'th 27 feet	
							Total depth 37 feet.	













Borehole ID: SB39 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/26/2002

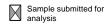
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Total Depth: 38 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 2					0000	GW	GRAVEL with sand	
<u> </u>			100				Black wood chips	
6			100					
- 8 - - - 10			100	13.7/Y			SAND with gravel, dark brown.	
F	SO191		100	17.3/Y			brown residual NAPL observed	
12		X	100	10.8/Y			no residual NAPL observed	
14	SO193		100	9.0/N				
16			100	9.4/N				grout
18	SO195		100	0/N			SAND, brown.	bentonite grout)
20			100	4.7/N				
22 			100	6.5/N		SW		
24			100	4.3/N			SAND with gravel, brownish gray.	
26			100	0/N				
28			100	6.5/N			SAND, brown.	
30	SO201		100	0/N			wet	
32			100	0/N		∇	Water encountered at 33 feet.	
34			100	0/N				
 36								





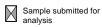








Boreh	ole ID: \$	SB39						Page 2 of 2
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Syn	oup nbol	Lithologic Description	Borehole Completion
38		\geq	100	0/N		SW	SAND, brown, wet.	
							Total depth 38 feet.	
40								
42								
44								
46								
								
50								
<u> </u>								
_ 54								
								
58								
60								
_ 62								
<u> 64</u>								
66								
- 68								
- 70								
— 72 —								
<u> </u>								
- 76								
_ 78								
— 80								













Borehole ID: SB40 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/27/2002

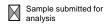
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch Total Depth: 37 feet

Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol		Lithologic Description	Borehole Completion
0 2					0000 0000 0000		FILL, road gravel, angular.	
						SM	Silty SAND with wood chips, brown.	
4 - 0	SO259	X	75	0/N			SAND with gravel, brownish gray.	
6			75	0/N				
8			50	0/N				
10			50	0/N		0144		
— 12 —			50	0/N		SW		
— 14 —			75	0/N				
— 16 —	SO265		75	0/N				grout
— 18 —			50	0/N				bentonite grout
20			50	0/N	0000	GW	GRAVEL with sand, brownish gray.	
— 22 —			50	0/N		sw	SAND with gravel, brownish gray.	
24 			100	0/N		SP		
26 			100	0/N			6-inch layer of silty SAND	
28 			100	0/N				
30	SO272		100	0/N		SP	Water encountered at 32 feet.	
32			100	0/N				
34			100	0/N				
 36							Total depth 37 feet.	













Borehole ID: SB41 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/27/2002

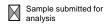
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Total Depth: 42 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol		Lithologic Description	Borehole Completion
<u> </u>					000		FILL, road gravel, angular.	
_ 2						SW- SM	SAND with gravel and silt, brown.	
4	SO221		100	10.5/N			SAND with gravel, brownish gray.	
6			100	0/N				
8			80	0/N		sw		
10			80	4.1/N				
— 12 — — — 14			80	0/N				
16			80	12.4/N	00000	GW	GRAVEL with sand, brownish gray.	bentonie grout
18	SO227		80	0/N	0000	GVV		Spenton
- 10 - 20			50	6.8/N			SAND with gravel, brownish gray.	
22			50	0/N		SW		
			50	0/N				-
_ 26	SO231		100	14.6/N			Fine to medium SAND, brownish gray, trace gravel.	
_ 28			100	0/N			Same as above, trace silt and no gravel.	
30			100	0/N			Fine to medium SAND, brownish gray.	
32			100	0/N		SP	Water encountered at 32 feet.	
34	SO235		100	0/N				
36			100	0/N				
		\times						





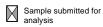








Boreh	Borehole ID: SB41 Page 2 of 2											
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Sym	oup obol	Lithologic Description	Borehole Completion				
38		\bowtie	100	0/N			Fine to medium SAND, brownish gray.	ont				
<u></u>		X	100	0/N		SP		bentonite grout:				
			100	0/N				bentc				
— 42 —							Total depth 42 feet.					
<u> </u>												
<u> </u>												
48												
50												
52												
54												
_ 56												
_ 58												
60												
<u> </u>												
64												
_ 66												
— 68 —												
— 70 —												
— 72 —												
- 74												
76 												
78 78												
80												
	l						√7					













Borehole ID: SB42 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/27/2002

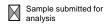
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch Total Depth: 43 feet

Surface Elevation:

Depth (#)	בפסתו (ווי)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Grou Symb		Lithologic Description	Borehole Completion
	0 2 4	SO240		100	0/N		SW	FILL, road gravel, angular. SAND, brown. 6-inch layer of black wood chips mixed with silty sand. SAND with gravel, brown.	
	6	30240		100	0/N 0/N	S	SW		
	10			85 85	0/N 3.4/N	S	SW	SAND, brown, trace gravel.	
	12 14			85	1.9/N	0000 0000 0000 0000	SW.	GRAVEL with sand, brownish gray.	
	16			75	1.9/N	0000			
	18	SO246		75 80	1.5/N 1.1/N			SAND with gravel, brownish gray.	bentonite grout)
	20			80	1.1/N				pento
	22			80	2.3/N	S	SW		
	2426			75	2.3/N				
	28	00050		75	0/N			Fine to medium SAND, brown and red	
	30	SO252		100	1.1/N 0/N	S	SP	banding. color change to gray, wet	
	32	SO254		100	0/N	,	abla	Water encountered at 33 feet.	
	34			100	0/N				
	-		$ \times $						XX













Boreh	Borehole ID: SB42 Page 2 of 2												
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Sym	oup abol	Lithologic Description	Borehole Completion					
38		\bowtie	100	0/N			Fine to medium SAND, gray, wet.	T C					
40			100	0/N		SP		ite gro					
		\times	100	0/N			trace silt	bentonite grout					
<u> </u>													
<u> </u>							Total depth 43 feet.						
46													
<u> </u>													
_ 50													
_ 52													
54 													
													
58													
60													
_ 62													
64													
— 66 —													
<u> </u>													
70													
72													
<u> </u>													
_ 76													
— 78 —													
 80													













Borehole ID: SB43 Page 1 of 2

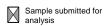
Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright Drilling Date(s): 8/12, 8/16/2002 Drilling Contractor: Cascade Drilling Drilling Method: Geoprobe®/Hollow Stem Auger

Sampling Method: Continuous core Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym	oup	Lithologic Description	Borehole Completion
0			75			SW-	SAND with silt, brown.	
2 			75				SAND with gravel, brown.	
4			75			CW		
6			25			SW		
8 - 10			50					
- 10 - 12			65				SAND, brownish gray.	
- 12 - 14			3					
16			80					
_ 18			80					bentonite grout
20		\triangleright	100				SAND, brownish gray, trace gravel. Geoprobe® refusal at 18 feet, switched to	bentoni
22			100				hollow stem auger.	
24		\triangleright	100			sw		
26			100					
28			100					
30			100				Same as before without gravel.	
32			100					
34			100					
36								





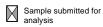








Boreh	Borehole ID: SB43 Page 2 of 2											
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Grou Symb	pol	Lithologic Description	Borehole Completion				
38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 72	Number	Samp Interv	100 100 100 100	(ppm)/ Sheen	Symb	pool SW	SAND, brownish gray. Water encountered at 38 feet. Total depth 43 feet. Temporary well set.					
74 - 76 - 78 - 78												
- 80							<u> </u>					













Borehole ID: SB44 Page 1 of 2

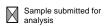
Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright Drilling Date(s): 8/12, 8/16/2002 Drilling Contractor: Cascade Drilling Drilling Method: Geoprobe®/Hollow Stem Auger

Sampling Method: Continuous core Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 			75 80 60			SW	SAND with gravel, brown.	
10			70 70					
12 14			70			SP	Fine SAND.	
16			95				SAND with gravel, brownish gray.	
_ 18			100				Geoprobe® refusal at 16 feet, switched to hollow stem auger.	bentonite grout
20			50			SW		pentr
22 24			100					
_ 26			75				SAND, grayish brown.	
28			100		**************************************	SP	Medium SAND, grayish brown. SAND, grayish brown.	
30			100				,	
32			100			SW		
34			100					





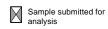








Boreh	Borehole ID: SB44 Page 2 of 2												
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbo	Lithologic Description	Borehole Completion						
38	Sample Number	Sample	100 100 100 100		Group Symbo	Description SAND with gravel, grayish brown. Water encountered at 39 feet.							
74 - 76 - 78 - 80													













Borehole ID: SB45 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

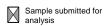
Drilling Date(s): 8/19/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 2 2 4			50			SW- SM	SAND with silt and gravel, brown, few wood chips.	
6			50	N		sw	SAND with gravel, gray.	
8			50		000000		GRAVEL with sand, gray.	
10			75	N	0000	GW		
12			100		0000			
14			100	N	 		Very fine silty SAND, light brown.	
18			100			SM		bentonite group
20			100	N				pento
22 24			100			SP	Very fine SAND, light brown. Medium SAND, grayish brown.	
24			100	N	0000 0000	SW		
26 28			100		0000	GW	GRAVEL with sand, grayish brown.	
30			100	N	0000			
32							SAND, gray.	
			100			SW		
34			100	N				



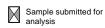








Boreh	Borehole ID: SB45 Page 2 of 2											
Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Gro Syn	oup nbol	Lithologic Description	Borehole Completion				
			% 100 50			ee s w	SAND, gray, wet. Water encountered at 38 feet. Same as before with trace gravel. Total depth 43 feet. Temporary well set.	> Pentonite grout				
	I	l			l			<u> </u>				













Borehole ID: SB46 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

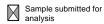
Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/19/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen		oup nbol	Lithologic Description	Borehole Completion
0 - 2 - 1			10			SM	Silty SAND with gravel, brown.	
4 6			20	0/N		sw	SAND with gravel, gray.	
8			2		0000	1	GRAVEL with sand, gray.	
10			25	0/N	0000	GW		
12			50			sw	SAND with gravel, gray.	
14			50	0/N	0000	GW	GRAVEL with sand, gray.	
18 18			75			CVA	SAND, grayish brown, trace gravel.	bentonite grouk
20			75	0/N		SW	SAND with gravel, gray.	pent
<u> 22</u>			100				Very fine silty SAND, brown.	
24 26			100	0/N		SM		
28			100					
30			100	0/N			SAND.	
32			100			SW		
34 - - 36			100	0/N			SAND with gravel.	
	<u> </u>			1	DE-MARK	1		





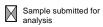








Boreh	Borehole ID: SB46 Page 2 of 2											
Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Gro Sym	oup abol	Lithologic Description	Borehole Completion				
1deg	Number	San	50 100 100 100 100 100 100 100 100 100 1			bol Sw	SAND with gravel. Water encountered at 38 feet. Total depth 43 feet. Temporary well set.	Completion				
78 80												













Borehole ID: SB47 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

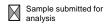
Drilling Date(s): 8/22/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0 1 1 2			50		000	FILL, road gravel.	
3			50		sw	SAND with angular gravel, brown.	bentonite chips.
5 5 6	SO128		75				
- - - 7 - - 8						Total depth 6 feet.	
9 - 10							
11 11 12							
13 14							
15 16							
17 18							













Borehole ID: SB48 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

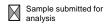
Drilling Date(s): 8/22/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0 1 2 3 4			50	0/N	\$W	FILL, angular road gravel. SAND with gravel, brown.	bentonite chips
5 5 6	SO130		80	0/N			
- 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18						Total depth 6 feet.	













Borehole ID: SB49 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

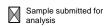
Drilling Date(s): 8/22/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0 - 1 - 1			400	0/N	000	FILL, road gravel.	
2 - - 3 - - 4			100	0/N		Silty SAND, brown, cross-bedded with dark layers.	bentonite chips.
5 5 6	SO132		100	0/N	SW	SAND with gravel, brownish gray.	
- 7 - 7 - 8						Total depth 6 feet.	
9 - 10							
- 10 - 11 - 12							
- 13 - 13 - 14							
- 14 - 15 - 16							
10 - - 17 - - 18							













Borehole ID: SB50 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

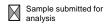
Drilling Date(s): 8/22/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0 - 1 - 0			10	0/N	00000000000000000000000000000000000000	FILL, road gravel.	
2 - - 3 - - 4			10	0/N	0000 0000 0000 0000 0000 0000 0000	GRAVEL with sand, gray.	bentonite chips.
5 6	SO131		100	0/N	SW	SAND with gravel, brown.	
- 7 - 7 - 8						Total depth 6 feet.	
9							
10							
12 - 13 - 14							
14 - - 15							
16 - - 17							
 18							













Borehole ID: SB51 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

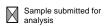
Drilling Date(s): 8/22/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0 1 2			20	0/N	000	FILL, angular road gravel.	
3 - 4			20	0/14	sw	SAND with gravel, brown.	bentonite chips.
5 6	SO129		80	0/N			
						Total depth 6 feet.	
8 - - - 9							
10 11							
_ 12 							
13 - - 14 -							
15 16							
17 18							













Borehole ID: SB52 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

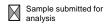
Drilling Date(s): 8/19/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen		oup nbol	Lithologic Description	Borehole Completion
0 2 2							Silty SAND with gravel, brown.	
— 4 — — 6	SO047	X	100	0.7/N			SAND with gravel, brownish gray.	
- 8		X	100	0/N		sw		
_ 10			100	0/N		OW		
12			100	0/N				
14		X	50	0/N	0000	GW	GRAVEL with sand, grayish brown.	
16		X	75	0/N			SAND with gravel, grayish brown.	
18		X	75	2.8/N				bentonite grout
20	SO054		100	0/N			SAND, grayish brown.	bentor
		X	100	0/N		SW		
_ 24		\nearrow	100	1.1/N				
_ _ _ 26		\nearrow	100	0/N				
_ 28		$\langle \rangle$	100	0.7/N			6-inch layer of silty fine SAND.	
30		$\langle \rangle$	100	1.4/N			Fine SAND, gray.	
32		\times	100	0.7/N		\ \subseteq \ SP	Water encountered at 31 feet.	
_ _ _ 34								
36								
							Total depth 36 feet. Temporary well set.	













Borehole ID: SB53 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

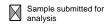
Geologist/Engineer: Evalyn Albright Drilling Date(s): 8/21/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbo		Borehole Completion
0 2 2 4					SI	Wood chips Silty SAND with gravel, brown.	
6	20442		75	1.4/N		SAND with gravel, brownish gray.	
_ 8 	SO113		75 100	1.4/N 9.0/N			
— 10 — — — 12			100	2.4/N		SAND, brown, trace gravel.	
14			100	3.5/N 4.5/N		SAND with gravel, brownish gray.	
16 			100	9.0/N			bentonite grout
— 18 — — 20			100	7.3/N	SI	SAND, brown.	pentor
 22 			100	7.3/N 9.4/N			
24	SO122		100	11.5/N			
26 _ _ 28			100	7.3/N			
30			100	4.9/N	Z	Water encountered at 30 feet.	
32			50				
_ _ _ 36		/\				Total depth 35 feet. Temporary well set.	











Borehole ID: SB54 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

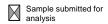
Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/21/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core Borehole Diameter: 6.75-inch

Dept	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Syn	oup	Description	Borehole Completion
0 2 4						SM	Silty SAND with gravel, brown.	
_ 4 _ 6	SO101		75	5.3/N			SAND with up to 40% gravel, brownish gray.	
- - 8			75	7.4/N		sw		
10			100	8.1/N			Same as before with 20% gravel.	
_ 12			100	4.6/N			Medium to coarse SAND with gravel, brownish gray.	
_ 14			100	7.8/N		SP		5
_ 16	SO106		100	9.6/N				bentonite grout
_ 18		\nearrow	75	7.8/N				bento
20			100	5.3/N			SAND, brown, trace gravel.	
22			100	7.8/N				
_ 24			100	10.3/N		SW	Same as before without gravel.	
26			100	10.3/N				
28			100			∇	Water encountered at 27 feet.	
30			100					
32							Total depth 32 feet. Temporary well set.	
34								
_ 36								













Borehole ID: SB55 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

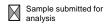
Drilling Date(s): 8/21/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen		oup nbol	Lithologic Description	Borehole Completion
0						SM	Silty SAND with gravel, brown.	
4 6	SO091		75	0/N			SAND with gravel, light brown.	
_ _ _ _ 8			15	0/N		SW	color change to brownish gray.	
10			25	1.1/N				
_ _ 12			75	0/N	000			
14			25	1.4/N	0000	GW	GRAVEL with sand, brownish gray.	
_ _ 16			75	0.4/N	0000			bentonite grout
_ _ 18			100	0.7/N			SAND, grayish brown, trace gravel.	bentor
20	SO098		100	4.6/N				
22		\times	100	0/N			SAND, brownish gray.	
_ _ 24						SW	moist	
_ _ 26			100	0.7/N				
 28			100			∇	Water encountered at 27 feet.	
30			100					
32							Total donth 22 fact. Taranaram	
34							Total depth 32 feet. Temporary well set.	
36								













Borehole ID: SB56 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

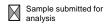
Drilling Date(s): 8/20/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 - 2 - 4						SM	Silty SAND with gravel, brown.	
4 6	SO061		100	0/N		sw	SAND with gravel, brown.	
<u> </u>		X	100	0/N				
_ 10			100	0/N	00000	GW	GRAVEL with sand, grayish brown.	
_ _ 12 ·		X	50	0/N	0000			
- 12 - 14	SO065		75	0/N			SAND with gravel, grayish brown.	
16		X	75	0/N		SW		bentonite group
		\times	100	0/N			SAND, grayish brown, trace gravel.	Sentoni
18 - - 20			100	0/N		SP	Fine to medium SAND, grayish brown.	
			100	0/N		SF		
22			100	0/N		∇	SAND, grayish brown, moist. Water encountered at 24 feet.	
24			100			SW	Same as before, trace silt, wet.	
26 28			100					
30							Total depth 29 feet. Temporary well set.	
_ 32								
34								
36								













Borehole ID: SB57 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

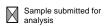
Drilling Date(s): 8/20/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Syn	oup	Lithologic Description	Borehole Completion
0 2 2 4						SM	Silty SAND with gravel, brown.	
- 4 - 6	SO082		15	1.1/N			SAND with gravel, grayish brown.	
- 8			25	1.8/N		SW		
- 10			75	1.1/N		344		
12			50	1.4/N				
- 14	SO086		25	0.4/N	0000	GW	GRAVEL with sand, brownish gray.	
- 16			50	1.1/N	0000			bentonite grouk
18			75	0.4/N			SAND with gravel, brownish gray.	benton
- 20			100	0/N			SAND.	
			100	2.1/N				
24			75			sw	wet Water encountered at 24 feet.	
26			100				Trace should at 2 hissa	
28								
30							Total depth 29 feet. Temporary well set.	
32								
34								













Borehole ID: SB58 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

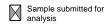
Drilling Date(s): 8/20/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 2 4						SM	Silty SAND with gravel, brown.	
_ 4 _ 6	SO071		50	0/N			SAND with gravel, grayish brown.	
- - 8			75	0/N		sw		
— 10			75	0/N				
12			70	0/N	0000	GW	GRAVEL with sand, grayish brown.	
- 14	SO075		75	0/N		SW	SAND with gravel, grayish brown.	
- 16			100	0/N			Fine to medium SAND, grayish brown.	bentonite grout
- 18			100	0/N				benton
20			100	0/N		SP		
			100	0/N		01	Medium to coarse SAND, grayish brown.	
22 24			100	0/N			Same as before, trace gravel. Same as before, no gravel.	
			100	0/N				
26 - - 28			100			∇	SAND with gravel. Water encountered at 27 feet.	
			100			sw	SAND.	
30			100					
32							Total depth 32 feet. Temporary well set.	
34								
 36								













Borehole ID: SB59 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

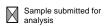
Drilling Date(s): 8/22/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0 1 1 2			15	0/N	SW SM		
3 - 4			15	U/IN	SW	SAND with gravel, dark brown.	bentonite chips.
5 5 6	SO126		100	0/N			
7 7						Total depth 6 feet.	
8 - - 9							
10 11							
 12 							
13 - - 14							
15 16							
17							
 18							













Borehole ID: SB60 Page 1 of 1

Project: J.H. Baxter & Co. - Arlington Facility

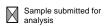
Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/22/2002 Drilling Contractor: Cascade Drilling Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	Sheen	Group Symbol	Lithologic Description	Borehole Completion
0 1 2 3 4			100	0/N	SW- SM	SAND with silt and gravel, brown.	bentonite chips
5	SO127		100	0/N			
6						Total depth 6 feet.	













Borehole ID: SB61 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA

Contract Number: 201029 Geologist/Engineer: Evalyn Albright

Drilling Date(s): 9/6/2002

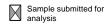
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger

Sampling Method: Dames and Moore Sampler

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Gro Syn	oup	Lithologic Description	Borehole Completion
0 - 1 - 1 - 0							FILL, angular road gravel.	
3							SAND with gravel, brown. color change to brownish gray	
5 5 6	SO307		100 7/10/12 100	<u>0</u> N				
7			12/15/16 100 15/18/20	<u>0</u> N		SW		bentonite grout
9 - 10			100 22/35/40	<u>0</u> N				benti
11 12			100 22/25/27 100	<u>0</u> N				
- 13 - 14			100 15/16/16	<u>0</u> N				
 15 	SO312		100 14/15/15	<u>0</u>			SAND brownish gray, trace gravel. SAND with gravel.	
16 - - 17 - -			100 10/12/15 100	IN				
18		/ \	16/18/18					





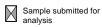








Sample	Boreh	Borehole ID: SB61 Page 2 of 2												
100	Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	(ppm)			Lithologic Description						
15/16/16					O _N			SAND with gravel.						
100					<u>0</u> N		SW							
25	E				O N									
100				12/12/13	<u>0</u> N			Fine to medium SAND, brown.						
28				12/13/14					itonite grout					
29 SO319 12/15/15 0 N 100 12/14/16 0 N 100 12/13/13 0 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N 100 N 100 N 100 N 100 N 100 N N 100 N				10/11/12	N		SP		ped					
12/14/16 0 N 12/13/13 0 N 12/13/13		SO319	X	12/15/15	<u>0</u> N		∇	Water encountered at 29 feet.						
				12/14/16	<u>0</u> N									
				12/13/13	<u>0</u> N									
35	34							Total donth 34 foot						
	35							ι οιαι αεριπ 34 leet.						
	36													
	37													
	38													
40	39													
	40													



Sample examined

Static water level







Borehole ID: SB62 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA

Contract Number: 201029 Geologist/Engineer: Evalyn Albright

Drilling Date(s): 9/6/2002

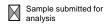
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger

Sampling Method: Dames and Moore Sampler

Borehole Diameter: 6.75-inch

(17)	Deptil (It)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Gro Sym		Lithologic Description	Borehole Completion
F	0					000		FILL, angular road gravel.	
E	1					000 000 000 000 000 000			
E	2					000			
E	3							SAND with gravel, brown.	
F									
E	4			100					
	5	SO322	X	4/4/5	<u>0</u> N				
E	6			100					
F	7			7/12/15	<u>0</u> N				
E	8			100 12/15/15					
F					0				grout
E	9			100 12/16/17	<u>0</u> N				bentonite grouk
F	10			100			SW	color change to brownish gray) Q
	11		X	12/16/16	<u>0</u> N				
F	12		$\left\langle -\right\rangle$	100 15/12/12					
E	13			. 67 . 127 . 12	<u>0</u> N				
E	14			100 12/15/13					
F		2000=							
E	15	SO327		100	<u>0</u> N				
F	16			100					
	17		X	13/15/15	<u>0</u> N				
	18			100 12/12/13					



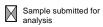








Boreh	ole ID:	SB6	62				Page 2 of 2
Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	oup nbol	Lithologic Description	Borehole Completion
19 20			100 10/11/12	<u>0</u> N		SAND with gravel, brownish gray.	
21 22			100 11/12/13	0 N	sw		
23			100 13/15/15	<u>0</u> N			
— 24 — — — 25			100 10/11/12	<u>0</u> N	 SM	Silty fine SAND, brown, wet.	
26			100 10/11/12			Fine to medium SAND, brown.	bentonite grout
27 28			100 10/11/12	O _N			bento
29	SO334	\times	100 10/11/12	0 N	∑ SP	Water encountered at 29 feet. Same as before, trace gravel.	
30 - - 31			100 10/10/12	<u>0</u> N			
32			100 10/10/11				
33 34			100 11/12/13	<u>0</u> N			
						Total depth 34 feet.	
— 35 —						·	
— 36 —							
37 							
38 							
39							
40							











Borehole ID: SB63 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA

Contract Number: 201029 Geologist/Engineer: Evalyn Albright

Drilling Date(s): 9/6/2002

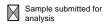
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger

Sampling Method: Dames and Moore Sampler

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	PID (ppm) Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 1 2							FILL, angular road gravel. SAND, dark brown.	
3 - 4						SW	Wood skips, block and braves	
5 6			6/10/12				Wood chips, black and brown.	
7			25/30/32					
8 - 9 -			24/37/40					bentonite grouf
10			35/40/40					bent
12			100 7/10/11					
13 - - 14			100 20/24/25				SAND with gravel, brownish gray, residual NAPL observed.	
15			100 12/15/19			SW		
17			100 10/11/11 100	<u>15.8</u> Y				
— 17 — — 18								





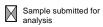








Sample	Boreh	ole ID:	SB	63					Page 2 of 2
100 101 12.8 100 101 12.8 100 101 12.8 100 101 12.8 100 101 12.8 100 101 12.8 100 101 12.8 100 101 12.8 100 101 12.8 100 15/16/18 100 12/14/15 10.5 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/14 100 11/13/1	Depth (ft)	Sample Number	Sample Interval	% Recovery Blow Count	(ppm)				
100					18.8 Y				
100	21				12.8 Y		sw	CAND trace group brown residual NADI	
10/12/14 22.9 100 15/16/18 100 15/15/16 Y		SO342	X		33.4 Y				
100					<u>22.9</u>				
12/15/16 100 12/14/15 10.5 No residual NAPL observed. SP SP SP SP SP SP SP S	26				r				
12/14/15 10.5 7					4.5 Y				nite grouf
31 SO346 11/13/14 5.6 N Water encountered at 32 feet. Silty fine SAND, brown. SM SM SM SM SM SM SM S			X		10.5 Y		SP	No residual NAPL observed.	bento
100		SO346			<u>5.6</u>				
100 10/11/11 N 100 10/11/11 N 100 10/10/12 0 N SM 100 15/15/16 Total depth 37 feet.	32			100 8/9/9			∇	Water encountered at 32 feet.	
100 10/10/12 0 N SM 100 15/15/16 Total depth 37 feet.					<u>0</u> N			Silty fine SAND, brown.	
Total depth 37 feet.					<u>0</u> N		SM	·	
Total depth 37 feet. 38 39			/ \						
						1.1.1.		Total depth 37 feet.	
	40								













Borehole ID: SB64 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

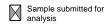
Drilling Date(s): 10/15/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 2 2					· · · · · · · · · · · · · · · · · · ·	SM	Silty SAND, fine, light brown.	
4 6 6			20				SAND with gravel, brown.	
8 10			15			CVA	color change to brownish gray	
12 14			75 50			SW		
16 18			80				Same as before, trace gravel.	group
20							Medium to coarse SAND, brownish gray.	bentonite grout)
22 24			90			SP	Medium SAND, brownish gray.	
26 28			90				SAND, trace gravel, brownish gray.	
30						SW	Fine to medium SAND, brownish gray.	
32			50			SP		
36								





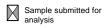








Borel	nole ID:	SB64						Page 2 of 2
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Sym	up bol	Lithologic Description	Borehole Completion
38		Sa	50 75	Sileefi			SAND with gravel, brownish gray. SAND, gray, wet. Water encountered at 40 feet. Total depth 45 feet.	Completion
<u> </u>								









Borehole ID: SB65 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

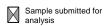
Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright Drilling Date(s): 10/14/2002

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core Borehole Diameter: 6.75-inch

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 2 2						SM	Silty SAND with gravel, dark brown.	
4 6 8			15				SAND with gravel, brown.	
10 12			40			sw	SAND, brownish gray. Same as before with gravel	
14 16			80				SAND as before, trace gravel	
- - 18 - - - 20			85			SP	Fine SAND, brownish gray.	bentonite grout;
22			100			SP- SM	Fine SAND with silt, brownish gray.	
26 28 28			70			sw	SAND, trace gravel, brownish gray.	
30 - 32 -			95			- V V	Fine to modium SAND, brownish grov	
34						SP	Fine to medium SAND, brownish gray.	



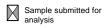








Boreh	nole ID:	SB65						Page 2 of 2
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Syn	oup nbol	Lithologic Description	Borehole Completion
38			%			SP SW	Fine to medium SAND, brownish gray. Water encountered at 40 feet. SAND, brownish gray, wet. Total depth 45 feet.	x bentonite grout
					_		∇	









Borehole ID: SB2D Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA

Contract Number: 201029 Geologist/Engineer: Evalyn Albright Drilling Date(s): 9/18/2002

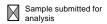
Drilling Contractor: Cascade Drilling

Drilling Method: Sonic

Sampling Method: Continuous core

Borehole Diameter: 8-inch Total Depth: 103.5 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Syn	oup	Lithologic Description	Borehole Completion
0			100	0/N			SAND with angular road gravel, dark brown.	
2			100	0/N			SAND with gravel, brown.	
4			100	0/N				
6			100	0/N			color change to brownish gray.	
8 - 10			100	0/N				
12			100	0/N		SW		
14			100	0/N				
<u></u>			100	0/N				
18		\nearrow	100	0/N				bentonite grout)
20			100	0/N				bentoni
			100	0/N				
24			100	0/N		SP	Fine to medium SAND, brownish gray.	
26			100	0/N 0/N			SAND with gravel, brownish gray.	
28			100	0/N 0/N		SP-	Fine SAND with silt, brown.	
30			100	0/N		SM	Fine to medium SAND, brown.	
32			100	0/N		SP		
34			100	0/N				
 36						SW		



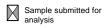








Boreh	ole ID: S	SB2D)				Page 2 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	oup nbol	Lithologic Description	Borehole Completion
38		\bowtie				SAND with gravel, brown.	
40		X	100	0/N	SW		
		\times	100	0/N		Fine SAND, brown.	
— 42 —			100	0/N		FINE SAND, DIOWII.	
— 44 — — 46			100	0/N			
— 48 — 48			100	0/N			
		\times	100	0/N			
50 - - - 52	SO424		100	0/N	SP		
			100	0/N	0.		
— 54 —			100	0/N			
<u> 56</u>			100	0/N			, the
— 58 —			100	0/N			(bentonite grout
— 60 —			100	0/N			bento
62			100	0/N		SAND with gravel, brownish gray.	
64			100	0/N		color change to orange	
— 66 —			100	0/N	sw	SAND with gravel, brownish gray.	
68			100	0/N			
70			100	0/N		Coarse SAND, brownish gray, trace	
— 72 —			100	0/N		gravel.	
— 74 —	SO436		100	0/N	SP		
— 76 —			100	0/N	J .		
— 78 —			100	0/N			
<u> </u>							





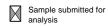








Boreh	ole ID:	SB2D)					Page 3 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Sym		Lithologic Description	Borehole Completion
— 82		\times					Coarse SAND, brownish gray, trace gravel.	
<u> </u>		\times	100	0/N				
F		\times	100	0/N				
86			100	0/N		SP		
— 88 —			100	0/N				
90			100	0/N				bentonite groub
92 - - 94			100	0/N			Sandy SILT, gray.	bentoni
94	SO446	X	100	0/N		ML	94 - 94.5 feet; as before with gravel 94.5 - 95 feet; SILT with sand, gray.	
		\times	100	0/N			96 - 97 feet; SILT, dense, brown, organic. SAND with gravel and silt, gray.	
98		X	100	0/N		SP- SM	o	
100		X	100	0/N				
102						ML/ SP-	gravel, gray.	
104						SM	gray	
106							103 - 103.5 feet; SILT with sand and gravel, gray.	
108							103.5 feet; SILT, dense, brown, organic.	
110							Total depth 103.5 feet.	
112								
							·	
116								
118								
120								
— 122 —								
<u> </u>								













Borehole ID: SB3D Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA

Contract Number: 201029 Geologist/Engineer: Evalyn Albright Drilling Date(s): 9/17/2002

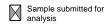
Drilling Contractor: Cascade Drilling

Drilling Method: Sonic

Sampling Method: Continuous core

Borehole Diameter: 8-inch Total Depth: 102 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Borehole Completion
0 2 4 6 8 10 12 14 16 18 20 22 22			100 100 100 100 100 100 100 100 100	0/N		SW	FILL, angular road gravel. Silty SAND with gravel, brown. SAND with gravel and wood chips, brown. SAND with gravel, brown.	bentonite grout
24 - 26 - 28 - 30 - 32 - 34 - 36			100 100 100 100 100 100	0/N 0/N 0/N 0/N 0/N 0/N 0/N 0/N		SP	Fine to medium SAND, brownish gray, trace silt. moist at 30 feet dry at 32 feet SAND with gravel, brownish gray.	





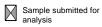








Boreh	nole ID:	SB3D)				Page 2 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	oup nbol	Lithologic Description	Borehole Completion
38						SAND, brownish gray.	
_ _ _ 40			100	0/N	SW		
_ _ _ 42		\times	100	0/N		SAND with gravel, brown.	
42 44			100	0/N	SW	SAND, brown, trace gravel.	
44 46			100	0/N		Coarse SAND with rounded gravel, brownish gray, wet.	
- 48			100	0/N			
50			100	0/N			
52	SO374		100	0/N		Same as before, trace rounded gravel, wet.	
52 54			100	0/N			
56			100	0/N			
		X	100	0/N			tno
— 58 —			100	0/N			bentonite grout
60			100	0/N			peni
62			100	0/N	SP		
64			100	0/N			
66			100	0/N			
68 70			100	0/N		Coarse SAND, brownish gray, wet.	
— 70 — —			100	0/N		·	
72 74			100	0/N			
- 74 - 76	SO386		100	0/N			
- 78			100	0/N		Same as before, trace large cobbles.	
- 78 - 80			100	0/N			
	submitted for	\square	100	0/N		∇	





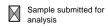








Boreh	ole ID: \$	SB3D)					Page 3 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Sym		Lithologic Description	Borehole Completion
<u> </u>		X		0/N			Coarse SAND, brownish gray, trace large	
- - - 84			100	0/N			cobbles, wet.	
86			100	0/N				
88			100	0/N				
<u> </u>			100	0/N		SP	Coarse SAND, gray.	liont
92			100	0/N				bentonite grout
94			100	0/N				ped
_ 96			100	0/N				
_ 98	SO397		100	0/N	///		CLAY groundance	
100		\nearrow	100	0/N		CL	CLAY, gray, dense.	
		\times	100	0/N	3	CL	ROCK CLAY with cobbles, gray.	
- 102 - 104						<u> </u>	Total depth 102 feet.	V V V
104								
106								
108								
110								
— 112 —								
114							•	
116								
— 118 —								
120 								
— 122 —								
— 124								













Monitoring Well ID: MW-10 Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/26/2002

Drilling Contractor: Cascade Drilling

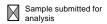
Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75 inch

Total Depth: 43 feet Surface Elevation: 143.30

Stickup: 1.69

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0 1 2 3 3			25		SM	Silty SAND, reddish brown, trace gravel.	
4 5 6	SO183		100	0/N		SAND, brownish gray, trace gravel.	
7 - 8 -			100			Same as before with gravel.	bentonite chips, nch blank PVC
9 - 10 -			50	0/N		SAND, brownish gray, trace gravel.	2- inch bl
11 - 12 - 13 - 14			50		SW	Same as before with gravel.	
- 14 - 15 - 16	SO185		100	0/N			
16 			100				











Sample Number Substitution Sheen Symbol Symbol Description SW SAND, brownish gray, with gravel.	Well Completion
SW SAND, brownish gray, with gravel.	
19 SAND, brownish gray, with gravei.	
Fine to medium SAND, brownish gray.	
SP SP	
25 100 0/N	
27	slot)
	20 sa
Silty fine SAND, brownish gray.	sand pack (10-20 sand): 2-inch well screen (20 slot
31	5-1
☐ 33	
35	
36	
38 100 100 1111	
- 39 - 40 SP Fine SAND, brownish gray, wet.	

Sample submitted for analysis

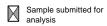
Sample examined Static water level

Initial water level





Monit	oring We	ell ID:	MW	'-10			Page 3 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
— 41 — 42 — 43					SP	Fine SAND, brownish gray, wet.	
						Total depth 43 feet.	
51 - 52 - 53 - 54 - 55 - 56 - 57 - 58							













Page 1 of 2 Monitoring Well ID: MW-11

Project: J.H. Baxter & Co. Arlingtion Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/26/2002

Drilling Contractor: Cascade Drilling

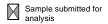
Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75 inch

Total Depth: 38 feet Surface Elevation: 146.46

Stickup: -0.40

÷	Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
E	- 0					000 000 000 000	FILL, road gravel, angular.	
	- 1						FILL, brown silty sand with gravel.	
E	- 2							
F	- 3							
	- 4	SO177		100	0/N		SAND, brown. Same as before with gravel.	bentonite chips. 2- inch blank PVC
	- 6 - 7			100				2- inc
E	- 8			100				
	- 9			100	0/N		color change to grayish brown	
	- 11 - 12 - 13			100		SW		
	- 14						·	1-20)
	- 15	SO179		100	0/N			2-inch well screen (20 slot)
	- 16 - 17			100				2-inch well s
	- 18							











Monito	oring We	ell ID:	MW	-11				Page 2 of 2
Depth (ft)	Sample Number			Gro Sym		Lithologic Description	Well Completion	
<u> </u>		\geq	100		9 9 9 9 9 9 9		SAND, grayish brown, with gravel.	
20 21			100	0/NS			color change to brown, no gravel.	
22 23 23			100			SW	SAND with gravel, brown.	
24 25 26			100	0/NS				
27 27 28 			100			∇	Water encountered at 28 feet.	sand pack (10-20) 2-inch well screen (20 slot)
29 - - 30 - - 31	SO182		100	0/NS			Fine to medium SAND, brown, wet.	san S
32 - 33 - 33			100			SP		
34 - 35 - 36 - 37			100				·	
38 - 39 - 40		/\					Total depth 38 feet.	
Sample analysis	submitted for	L ⊠s	Sample exa	amined	▼ St	atic wat	er level Initial water level	PDEMIED





Monitoring Well ID: MW-12 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/28/2002

Drilling Contractor: Cascade Drilling

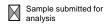
Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75 inch

Total Depth: 38 feet Surface Elevation: 144.48

Stickup: -0.69

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbo		Well Completion
0 1 1					000	FILL, gravel, angular.	
3			50		SV	SAND with gravel, brown.	
5			50			Wood chips, brown.	
- 7 - 7 - 8			50				bentonite chips.
9 - 10			50				4- inchstainless steel casing
11 12			50				ri 4
13 14			50				
 15 16			75	23.6/Y	0000 0000 0000 0000 0000 0000 0000 G\	GRAVEL with sand, dark gray, residual NAPL observed.	
17 18			75	27.0/Y	0000		



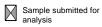








Monit	oring We	ell ID:	MW	/-12				Pag	ge 2 of 2
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Syn		Lithologic Description	1	Well mpletion
— 19 — — — 20	SO296		80	44.3/Y			SAND with gravel, brown, residual NAPL observed.		
20 21 22			80	30.0/Y		SW			
23 23			80	24.0/Y			Same as before with trace gravel.		
24 25 25			100	35.3/Y			Fine SAND, brown, residual NAPL observed.		lot
26 - - 27 -			100	30.4/Y		SP		sand)	4-inch stainless steel well screen (20 slot
28 29 29			100	29.3/Y				sand pack (10-20 sand)	stainless steel w
30 - - 31 - - 32			100	20.3/Y		SM	Silty fine SAND, <u>odor.</u>		4-inch s
32 33 34			100	9.4/N		∇	Fine SAND, no visual indications of NAPL. Water encountered at 33 feet.		
34 35 36			100	11.3/N		SP			
36 37 38	SO305		100	3.8/N					
							Total depth 39 feet. Backfilled with sand to 38 feet.		













Monitoring Well ID: MW-13 Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/28/2002

Drilling Contractor: Cascade Drilling

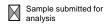
Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75 inch

Total Depth: 42 feet Surface Elevation: 147.40

Stickup: -0.78

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Sym		Lithologic Description	Well Completion
0 1					0000		FILL, angular road gravel.	
2 - 3 -			15			SW- SM	SAND with silt and gravel, brown.	
4 5 5			70	0/N			SAND with gravel, black, trace wood chips.	
6 7 7	SO276	X	70	0/N			SAND with gravel, brown.	bentonite chips, ss steel casing
8 - 9 - 10			75	0/N			color change to brownish gray	bent inch stainless st
10 - - 11 - - 12	SO278	X	75	0/Y		SW		4
12 - - 13 - - 14			75	0/Y				creen (20 slot)
15			75	3.0/Y			color change to dark brown, residual NAPL observed	pack (10-20 sand):
16 - - 17 - -			75	4.9/Y				sand pack (10-20 sand)
— 18								



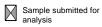


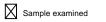






Monitoring Well ID: MW-13 Page 2 of 3											
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen		oup nbol	Lithologic Description	Well Completion			
— 19 — — — 20	SO282		75	9.4/Y			SAND with gravel, dark brown, mobile NAPL observed.				
21 21 22			75	13.9/Y							
23 24			75	5.3/Y		sw					
25 25 26			80	12.8/Y				(20 slot)			
27 27 28			80	8.6/Y			Fine SAND, mobile NAPL observed.	sand pack (10-20 sand); tainless stell well screen (20 slot)			
29			80	6.8/Y				sand pack (10-20 4-inch stainless stell well			
31 - 32			80	5.6/Y		∇	Water encountered at 32 feet.	4			
33 34	SO289		80	6.4/Y		SP					
35 36			100	7.5/Y							
37			100	1.1/Y			Same as before, residual NAPL observed.				
39 - 40	SO292		100	1.1/Y							
		\times									





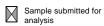








Dept	Sample Number	Sample Interval	% Recovery	PID			
			% Re	(ppm)/ Sheen	Group Symbol	Lithologic Description	Well Completion
41		\times	100	2.3/N	SP	Fine SAND as before.	oackfill:
42						Total depth 42 feet, backfilled to 37.	sand backfill
43							<u> </u>
45							
46							
47							
48							
49							
50 - -							
— 51 — — 52							
53							
54							
55 55							
56 							
— 57 —							
58 59							
59 60							
61							
62							













Monitoring Well ID: MW-14 Page 1 of 2

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 8/22/2002

Drilling Contractor: Cascade Drilling

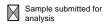
Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 6.75 inch

Total Depth: 38 feet Surface Elevation: 139.88

Stickup: 1.82

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Group Symbol	Lithologic Description	Well Completion
0 1 2			10	0/N		FILL, coarse gravel with sand and silt.	
3 - 4			10	0/N	SW	SAND, trace gravel.	
5	SO125		80	0/N		SAND with gravel, medium to coarse sand, 20 - 30% gravel.	bentonite chips nch blank PVC
7 - 8 -			80		SP		2- in
9			100	0/N	SW	SAND with gravel, gray.	0-20 sand)
15 16 17 18			75	O/N			sand pack (10-



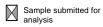








Mon	Monitoring Well ID: MW-14 Page 2 of 2											
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Gro Sym		Lithologic Description	Well Completion				
19						SW	SAND with gravel, gray.					
20 21 22 23	2		100	O/N			Fine to medium SAND, brownish gray.					
24 25												
26			100	0/N					slot)			
27 28						\supset	Water encountered at 28 feet.	(pu	2-inch PVCI well screen (20 slot			
29	1					SP		(10-20 sa	PVCI we			
31 32 33			100	O/N				sand pack (10-20 sand)	2-inch			
34							Same as before with trace gravel.					
35 36 37 37			100	0/N								
38		\longleftarrow					T. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.					
<u> </u>							Total depth 38 feet.					
40												
40							∇					













Monitoring Well ID: MW-15 Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright Drilling Date(s): 10/14/2002

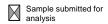
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Continuous core

Borehole Diameter: 8-inch Total Depth: 50 feet Surface Elevation:

Stickup:

Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm) /Sheen	Gro Syn	oup	Lithologic Description	Well Completion
0 1 1 2			100			SM	Silty SAND with gravel, brown.	
3 3 4			100				SAND with gravel, brown.	
5 			10			sw		
8 - - 9 - - 10			10					bentonite chips - inch blank PVC
11 12 12			90				SAND, brown, trace gravel.	7.
13 			80			SP	SAND with gravel, brownish gray. Fine SAND, brownish gray.	
15 - - 16 - - 17			75			sw	SAND, trace gravel, brownish gray. SAND with gravel, brownish gray.	
_ 18								



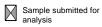








Monit	Monitoring Well ID: MW-15 Page 2 of 3												
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen			Lithologic Description	Well Completion					
19		X	100				SAND, trace gravel, brownish gray.						
20 21 22			90					bentonite chips					
23 24 24			95			SW							
25 26 27			100				Same as before, no gravel. SAND, trace gravel, brownish gray.						
28 29 29			100		27 27 27		Medium to coarse SAND, brownish gray.						
30 31 31 32 32			100			C D		errenter (10-20 sand)	reen (20 slot)				
33 - 34 - 35			100			SP		sand pack (1	2-inch PVCI well screen				
35 - - 36 - - 37			100				Coarse SAND, brownish gray. Medium SAND, brownish gray.						
- - - - - - 39			100			SW	SAND, brownish gray.						
40	submitted for					∇	Water encountered at 40 feet.						



Sample examined

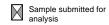








Monit	Monitoring Well ID: MW-15 Page 3 of 3											
Depth (ft)	Sample Number	Sample Interval	% Recovery	PID (ppm)/ Sheen	Group Symbo	Lithologic Description	Well Completion					
<u> </u>						SAND, brownish gray, wet.						
42			100									
43							slot)					
44		X					and)					
45					٥,		sand pack (10-20 sand)					
_ 46					SI	V	pack (1					
		X					sand pack (10-20 sand) 2-inch PVCI well screen (20 slot)					
47		$\langle - \rangle$										
48												
												
<u></u>					lententen Service							
51						Total depth 50 feet.						
52												
<u> </u>												
54												
55												
56												
— 57 —						·						
— 58 —												
<u> </u>												
60												
61												
62												
Comple	1											













Monitoring Well ID: MW-16 Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 9/29/2003

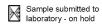
Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Borehole Diameter: 8-inch

Total Depth: 50 feet Depth to Water: 40 feet

Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Count	Group Symbol	Lithologic Description	Well Completion
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 17 18	SO4000		50	14 22 30 14 28 33	SW	SAND with gravel, tan to brown SAND, grayish brown, trace gravel.	concrete — — — — — — — — — — — — — — — — — —











Monit	Monitoring Well ID: MW-16 Page 2 of 3										
Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbol		Lithologic Description	Well Completion			
— 19 —						sw	SAND, trace gravel, brownish gray.				
20 21	SO4001		100	17 23 29			Fine SILTY SAND, tan to brown.	bentonite chips	PVC		
22		7		29		SM		bent	2- inch blank PVC		
23						SIVI			2- ir		
24 25											
26			100	50/6			GRAVEL with sand, gray.				
27					000000000000000000000000000000000000000	GW					
28 29					0000						
30							SAND, gray.	(F			
31			70	30 50/6			On N.D., gray.	10-20 sand)	(20 slot)		
32						sw		sand pack (1	ell screen		
34								8	2-inch PVCI well screen		
35			100	34			Fine to medium SAND, gray.		2-in		
36 - - 37			100	35 41							
38						SP					
39											
40				25		∇	Water encountered at 40 feet.				













Monito	Monitoring Well ID: MW-16 Page 3 of 3											
Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Gro Syn	oup nbol	Lithologic Description	Well Completion				
41	SO4002	X	100	36 38			Fine to medium SAND, gray.					
_ 42												
43								lot)				
_ 44								nd)				
<u> </u>								-20 sal				
			100	50/6		SP		sand pack (10-20 sand) -inch PVCI well screen (
— 46 —								sand pack (10-20 sand) 2-inch PVCI well screen (20 slot)				
— 47 —												
— 48 —												
49												
<u> </u>							Total depth 50 feet.					
<u> </u>			100	50/6								
52												
53												
54												
_ 55												
56												
_ 57												
_ _ _ 58												
_ _ _ _ 59												
60												
— 61 —												
<u> </u>							∇					













Monitoring Well ID: MW-17 Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

Drilling Date(s): 9/30/2003

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Borehole Diameter: 8-inch

Total Depth: 55 feet Depth to Water: 44 feet Surface Elevation:

Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Count	Gro Syn	oup nbol	Lithologic Description	Well Completion
0 1 1 2 3 4 5 1 6 1 7 1 8 1 9 1 0			75	10 18 20		SP	Fine to medium SAND with gravel, tan to brown.	bentonite chips 2- inch blank PVC well cap
11 12 13 13 14 14 14	SO4003		50	50/6			Fine to medium sandy GRAVEL, brownish gray.	bentonite 2-
15 16 17 17 18			75	50 30 36		GW	GRAVEL with sand, grayish brown.	





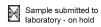








Mon	itoring We	ell ID:	MW	-17				Pag	je 2	2 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbol		Lithologic Description	Well Completion		
19					0000	GW	GRAVEL with sand, grayish brown.			
20 - - - 2	504004	X	100	27 28			Medium to coarse SAND, gray.			
2				30						
23	3							bentonite chips	٥٨c	
24								pento	2- inch blank PVC	
25 26			90	18 36		SP	Coarse SAND with gravel, gray.		2- inc	
27				50						
28 28	3									
29										
30			25	80/6	000		GRAVEL with coarse sand, gray.			
32					000					
= = 30	3					GW		sand)	slot)	
34					000			sand pack (10-20 sand)	screen (20 slot	
3:			75	50/6			Coarse SAND with gravel, gray.	ed pues	CI well sc	
3.						6-			2-inch PVCI well	
38	3					SP				
39										
40)		50	100/5	000	GW	GRAVEL with coarse sand, gray.			













Monito	oring We	II ID:	MW	-17				Page 3 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Gro Syn		Lithologic Description	Well Completion
— 41 — 42 — 43			50			GW	GRAVEL with coarse sand, gray.	
- 44 - 45					0000	∇	Water encountered at 44 feet.	
	SO4005		100	20 50			Fine SAND, gray, trace silt, wet.	sand pack (10-20 sand)
			100	20 50/4		SP	Fine SAND, gray, wet.	sand pad
51 - 52 - 53 - 53				30/4				
54 55							Heaving sands, no sample collected.	
 56 							Total depth 55 feet.	
— 57 — — 58								
 59 								
60 - 61								
62								













Monitoring Well ID: MW-18 Page 1 of 3

Project: J.H. Baxter & Co. - Arlington Facility

Location: Arlington, WA Contract Number: 201029

Geologist/Engineer: Evalyn Albright

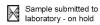
Drilling Date(s): 9/30/2003

Drilling Contractor: Cascade Drilling

Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Borehole Diameter: 8-inch

Total Depth: 55 feet Depth to Water: 45 feet Surface Elevation:

	Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Count	Group Symbo	o ol	Lithologic Description	Well Completion	
SO4006	1	SO4006		70	14 20 24 18 30 32	G		Same as before.	***************************************	4





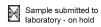








Monit	oring We	ell ID:	MW-	-18				Pag	je 2	2 of 3
Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Gro Syn		Lithologic Description	Well Completion		
19							Coarse SAND with gravel, gray.			
20 21	SO4007		100	20 23 26			Medium to coarse SAND, grayish brown.			
22		7 V		20				S		
23								bentonite chips	PVC	
24 25								pent	2- inch blank PVC	
26			100	50/6			Coarse SAND with gravel, gray.		2- i	
27						SP				
28						01				
<u> 29</u>										
30			100	32 40			Medium to coarse SAND, gray.			
32				46						
33								sand)	(
34								sand pack (10-20 sand)	en (20 sl	
35			100	20 28		sw	SAND with gravel, gray.	sand bac	2-inch PVCI well screen (20 slot	
<u> 36</u>				33		SM	•	000000	h PVC	
37							SAND with gravel, gray.		2-inc	
= 38						sw				
39										
<u> </u>			100	18	****	SP	Fine SAND, brownish gray.			













Monito	oring We	II ID:	MW.	-18			Page 3 of 3		
Depth (ft)	Sample Number	Sample Interval	% Recovery	Blow Counts	Group Symbo	Lithologic Description	Well Completion		
41		X	100	21 26	**********	Fine SAND, brownish gray.			
42									
43									
44									
 45				22	7				
46	SO4008		100	23 26 29	***********	Same as before, color change to gray, wet. Water encountered at 45 feet.) slot)		
47							sand pack (10-20 sand) 2-inch PVCi well screen (20 slot		
48					s	P	vell sc		
49							sand pe		
_ 50				0.4		Occurs on hafara dana alla	2-in		
_ 51		\times	80	31 50	***************************************	Same as before, trace silt.			
_ 52									
_ 53					**************************************				
_ 54									
_ 55						Heaving sands, no sample collected.			
_ 56						Total depth 55 feet.			
_ 57									
_ 58									
_ 59									
60									
61									
_ 62									

